=> fil reg

FILE 'REGISTRY' ENTERED AT 11:24:19 ON 03 JUN 2010

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2010 American Chemical Society (ACS)

Property values tagged with IC are from the ${\tt ZIC/VINITI}$ data file provided by ${\tt InfoChem.}$

STRUCTURE FILE UPDATES: 2 JUN 2010 HIGHEST RN 1226851-61-1 DICTIONARY FILE UPDATES: 2 JUN 2010 HIGHEST RN 1226851-61-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 8, 2010.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> d que 149

L2 8 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON (115-41-3/BI OR 1667-99-8/BI OR 1796-92-5/BI OR 3564-18-9/BI OR 7440-05-3/B I OR 7440-50-8/BI OR 7647-10-1/BI OR 7758-98-7/BI)

L3 1 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON "CHROME AZUROL

S"/CN L4 1 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON "CHROME AZUROL

B"/CN
L6 1 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON "ERIOCHROME

CYANINE R"/CN

L7 1 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON "PYROCATECHOL VIOLET"/CN

L10 STR

NODE ATTRIBUTES:

NSPEC IS RC AT 7 NSPEC IS RC AT 21

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

```
GRAPH ATTRIBUTES:
```

RSPEC I

NUMBER OF NODES IS 21

```
STEREO ATTRIBUTES: NONE
L14
             SCR 1139
L16
           931 SEA FILE=REGISTRY SSS FUL L10 AND L14
L17
             2 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L16 AND L2
L19
             2 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L2 AND PD/ELS
L22
        124082 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L19
          1090 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L17
L23
T.24
            19 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L22 AND L23
L25
         12051 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L16
            82 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L22 AND L25
L26
1.27
            54 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L26 AND ANST/RL
L28
          2280 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L3 OR L4 OR L6 OR
               L7
L29
            39 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L28 AND L22
L30
            32 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L29 AND ANST/RL
L31
            31 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L30 AND (1840-2003
               )/PRY.AY.PY
L33
               STR
```

G1 @30 G1 @31

VAR G1=29/25/26/22/23 VPA 30-2/3/5/6 U VPA 31-9/10/12/13 U NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 31

STEREO ATTRIBUTES: NONE

L35 167 SEA FILE=REGISTRY SUB=L16 SSS FUL L33
L36 3081 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L35

L37 37 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L36 AND L22 L38 36 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L37 AND (1840-2003

)/PRY,AY,PY

```
1.40
             1 SEA FILE-REGISTRY SPE-ON ABB-ON PLU-ON 7440-05-3/RN
L41
       116334 SEA FILE-HCAPLUS SPE-ON ABB-ON PLU-ON L40
L42
           36 SEA FILE-HCAPLUS SPE=ON ABB=ON PLU=ON L38 AND L41
L43
           18 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L24 AND (1840-2003
              )/PRY.AY.PY
1.44
           36 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L42 OR L43
          22 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L31 AND L44
L45
1.46
          36 SEA FILE-HCAPLUS SPE-ON ABB-ON PLU-ON L44 OR L45
L48
          27 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L27 AND L46
L49
          36 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L46 OR L48
```

=> fil hcap

FILE 'HCAPLUS' ENTERED AT 11:24:34 ON 03 JUN 2010
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2010 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 3 Jun 2010 VOL 152 ISS 23
FILE LAST UPDATED: 2 Jun 2010 (20100602/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Apr 2010

 $\tt HCAplus$ now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2010.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d 149 1-36 ibib ed abs hitstr hitind

L49 ANSWER 1 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 2004:355210 HCAPLUS Full-text

DOCUMENT NUMBER: 140:353235
TITLE: Test strip for determining creatinine

INVENTOR(S): Kosaka, Hideko

PATENT ASSIGNEE(S): Arkray, Inc., Japan

SOURCE: PCT Int. Appl., 29 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

	WO	2004036225					A1 20040429				WO 2	003-	20031015						
												<							
		W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,		
			CN.	CO.	CR.	CU.	CZ.	DE,	DK.	DM.	DZ.	EC.	EE.	EG.	ES.	FI.	GB.		
								HU,											
								LV,											
								PL,											
								TT,											
			ZM,		1117	1117		11/		0117	00,	00,	02,	,	,	10,	211,		
		RW:			KE.	LS.	MW.	MZ,	SD.	SI	SZ.	TZ.	IIG.	ZM.	7.W.	AM.	A7.		
								TJ,											
								GR,											
								CF,											
							ъ,	CI,	co,	C1,	CIT	Ori,	GI4,	027	un,	III,	Piley		
	NE, SN, TD,							2004	0513	JP 2002-300959						20021015			
	OF 2004130400							2004	0515		01 2002 300333 <					20021010			
	JP 4214271							2009	1128			`							
	AU 2003273007									AU 2003-273007						2	0031015		
	AU 20032/300/							2001	0501	<						20001010			
	EP 1560027					Δ1		2005	กลกร				20031015						
BE 130002/						III		2005	0000	<						20001010			
R: AT, BE, CH,					DE	DK	FC	FD	CB	CP			LII	NIT.	SE.	MC			
		14.															HU, SK		
	CM	1705				A													
CN 1705883								2005	1207	CN 2003-80101391							0031013		
CN 100350251								2007	1121	\									
										US 2005-530790						2	0050408		
	US	2005	0200	3/4		AI		2005	1201	05 2005-530790						20050408			
PRIORITY APPLN. INFO.:											TD 2			E0			0021015		
FRIGRIII AFFEN. INFO.:											OF Z			33		n 2	0021013		
							wo 2			166	,	ı, 2	0031015						
														100	,	n 2	0031013		
												<							

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 140:353235

ED Entered STN: 30 Apr 2004

GI

AB A novel test strip for determining creatinine is provided. The test strip is produced by incorporating a compound represented by the general formula (I), a metal capable of reacting with the compound to form a color complex, and a buffer into a porous material. The quantity of creatinine is determined by optically measuring the quantity of a color complex formed from the compound and the metal, and determining the inhibition of this color complex formation

by creatinine. In I, R1 is H, 803X, or C00X; R4 and R6 are each independently OH, 803X, or C00X; R2, R3, R5, and R7 are each independently H, OH, Cl, Br, I, N02, N0, or CH3; and Xs in R1, R4, and R6 are each independently H, Na, K, or NH4.

IT 115-41-3 1667-99-8, Chrome Azurol S
 1796-92-5 3564-18-9, Eriochrome Cyanine R
 7440-05-3, Palladium, uses 7647-10-1, Palladium
 chloride

(test strip for determining creatinine)

RN 115-41-3 HCAPLUS

CN 1,2-Benzenediol, 4,4'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis-(CA INDEX NAME)

RN 1667-99-8 HCAPLUS

CN Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-yildene)(2,6-dichloro-3-sulfophenyl)methyl]-2-hydroxy-3-methyl-, sodium salt (1:3) (CA INDEX NAME)

■3 Na

RN 1796-92-5 HCAPLUS

CN Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)(2,6-dichlorophenyl)methyl]-2-hydroxy-3-methyl-, sodium salt (1:2) (CA INDEX NAME)

●2 Na

RN 3564-18-9 HCAPLUS

CN Benzoic acid, 3,3'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis[6-hydroxy-5-methyl-, sodium salt (1:3) (CA INDEX NAME)

●3 Na

RN 7440-05-3 HCAPLUS

CN Palladium (CA INDEX NAME)

P

RN 7647-10-1 HCAPLUS

CN Palladium chloride (PdC12) (CA INDEX NAME)

C1-Pd-C1

IC ICM G01N033-70

ICS G01N033-52

CC 9-15 (Biochemical Methods)

IT 115-41-3 1667-99-8, Chrome Azurol S 1796-92-5 3564-18-9, Eriochrome Cyanine R

7440-05-3, Palladium, uses 7440-50-8, Copper, uses

7647-10-1, Palladium chloride 7758-98-7, Copper sulfate,

uses

(test strip for determining creatinine)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS

RECORD (5 CITINGS)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN THE

RE FORMAT

L49 ANSWER 2 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 2004:36430 HCAPLUS Full-text

DOCUMENT NUMBER: 140:103980

TITLE: Extraction separation of palladium(II) using

polyethylene glycol-ammonium sulfate-xylenol

orange AUTHOR(S): Hu, Ru.

AUTHOR(S): Hu, Rui-guang; Lin, Qiu-yue; Liu, Tian-xi CORPORATE SOURCE: Department of Chemistry, Zhejiang Normal

University, Jinhua, 321004, Peop. Rep. China SOURCE: Fenxi Shiyanshi (2003), 22(6), 47-49

CODEN: FENSE4; ISSN: 1000-0720

PUBLISHER: Fenxi Shivanshi Bianjibu

DOCUMENT TYPE: Journal

LANGUAGE: Chinese ED Entered STN: 16 Jan 2004

AB In polyethylene glycol-ammonium sulfate-water system, extraction behavior of the complexes of Pd(II) with extractants (XO, CFA III, Chromazarol S, Zincon, PAN-5) were investigated. The results indicated that in solution at pH 1.0 .apprx. 6.0 the complex of Pd(II) with XO was almost completely extracted by PEG phase, while extraction yield of Fe(II), Co(II), Zn(II) changed with pH, and Mn(II), Cd(II) were not extracted at all. Quant. separation of Pd(II) from ions of Pe(II), Zn(II), Zn(II), Mn(II), Cd(III) in pH 1.0 .apprx. 2.0 (HClO4) was performed.

IT 7440-05-3, Palladium, analysis

(extraction separation of palladium(II) using polyethylene glycol-ammonium sulfate-xylenol orange)

RN 7440-05-3 HCAPLUS

CN Palladium (CA INDEX NAME)

Ρd

TT 1667-99-8

(extraction separation of palladium(II) using polyethylene glycol-ammonium sulfate-xylenol orange)

RN 1667-99-8 HCAPLUS

CN Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene) (2,6-dichloro-3-sulfophenyl)methyl]-2-hydroxy-3-methyl-, sodium salt (13) (CA INDEX NABE)

3 Na

79-4 (Inorganic Analytical Chemistry) Section cross-reference(s): 68

7439-89-6, Iron, analysis 7439-96-5, Manganese, analysis ΙT

7440-05-3, Palladium, analysis 7440-43-9, Cadmium, analysis 7440-48-4, Cobalt, analysis 7440-66-6, Zinc, analysis

(extraction separation of palladium(II) using polyethylene glycol-ammonium sulfate-xvlenol orange)

85-85-8, PAN 135-52-4, Zincon 1611-35-4, Xylenol orange 1667-99-8

> (extraction separation of palladium(II) using polyethylene glycol-ammonium sulfate-xylenol orange)

L49 ANSWER 3 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 2003:855556 HCAPLUS Full-text

DOCUMENT NUMBER: 139:347692

TITLE: Determination of elements in body fluids and test kit including the necessary reagents for diagnosis

of diseaseses caused by elemental imbalances

INVENTOR(S): Rupp, Michael E. PATENT ASSIGNEE(S): Future Data, Inc., USA

SOURCE: U.S. Pat. Appl. Publ., 13 pp. CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

	2141 010																
	TENT :				KIND DATE			APPLICATION NO.							DATE		
US	2003	A1 20031030			US 2003-423130							20030424					
	US 6821786 WO 2003091725					B2 20041123 A1 20031106				WO 2	003-1	20030425					
	W: RW:	CN, GE, LC, NO, TM, GH, BY, EE,	CO, GH, LK, NZ, TN, GM, KG, ES,	CR, GM, LR, OM, TR, KE, KZ,	CU, HR, LS, PH, TT, LS, MD, FR,	CZ, HU, LT, PL, TZ, MW, RU, GB,	AU, DE, ID, LU, PT, UA, MZ, TJ, GR, CF,	DK, IL, LV, RO, UG, SD, TM, HU,	DM, IN, MA, RU, UZ, SL, AT, IE,	DZ, IS, MD, SC, VC, SZ, BE, IT,	BG, EC, JP, MG, SD, VN, TZ, BG, LU,	EE, KE, MK, SE, YU, UG, CH, MC,	ES, KG, MN, SG, ZA, ZM, CY, NL,	FI, KP, MW, SK, ZM, ZW, CZ, PT,	GB, KR, MX, SL, ZW AM, DE, RO,	GD, KZ, MZ, TJ, AZ, DK, SE,	

114	2003			TD,	TG A1	2003	1110	ΔII	2003-	2237	3.5		2	0030	425
no	2003	2231.	33		AI	2003	1110	AU			20030423				
EP	1504	257			A1	2005	0209	EP	2003-		20030425				
									,						
	R:					DK, ES,									
		PT,	ΙE,	SI,	LT,	LV, FI,	RO,	MK, C	Y, AL,	TR,	BG,	CZ,	EE,	HU,	SK
JP 2005524071						20050811 JP 2004-500061						20030425			
									<						
PRIORITY	Y APP	LN.	INFO	. :				US		P 20020425					
									<						
								US	2003-	4231	3.0		A 2	0030	424
									<						
								WO	2003-		911		W 2	0030	425

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

- ED Entered STN: 31 Oct 2003
- AB A self-diagnostic test, a self-diagnostic test apparatus, and method of manufacturing a self-diagnostic test for screening for elemental mineral imbalances in a patient utilizing an anal. of the reaction of mineral specific reagents to a sample from a patient are provided. In one embodiment, the invention is directed to a test for those elements that occur naturally in the body. In such an embodiment, the invention may test for those elements that comprise about 0.001% of the body weight or less (microtrace), those elements that that comprise about 4% of the body weight or less (trace), those elements that comprise up to 96% of the body weight (mass), or any combination of the above. A test strip includes series of reagent spots for the colorimetric determination of the individual elements.
- IT 7440-05-3, Palladium, analysis
 - (determination of elements in body fluids and test kit including the necessary reagents for diagnosis of diseaseses caused by elemental imbalances)
- RN 7440-05-3 HCAPLUS
- CN Palladium (CA INDEX NAME)
- D.
- II 569-58-4, Aluminon 1667-99-8 7647-10-1
 - , Palladium chloride
 - (determination of elements in body fluids and test kit including the necessary reagents for diagnosis of diseaseses caused by elemental imbalances)
- RN 569-58-4 HCAPLUS
- CN Benzoic acid, 3,3'-[(3-carboxy-4-oxo-2,5-cyclohexadien-1-ylidene)methylene]bis[6-hydroxy-, ammonium salt (1:3) (CA INDEX NAME)

RN 1667-99-8 HCAPLUS

CN Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)(2,6-dichloro-3-sulfophenyl)methyl]-2-hydroxy-3-methyl-, sodium salt (1:3) (CA INDEX NAME)

3 Na

RN 7647-10-1 HCAPLUS

CN Palladium chloride (PdC12) (CA INDEX NAME)

C1-Pd-C1

ICS G01N033-20
INCL 436074000; 422056000
CC 9-1 (Biochemical Methods)
Section cross-reference(s): 4, 14
IT 7429-90-5, Aluminum, analysis 74

ICM G01N031-22

Section Cross-returence(s): 4, 14
7429-90-5, Aluminum, analysis 7429-91-6, Dysprosium, analysis 7429-92-7, Einsteinium, analysis 7439-88-5, Iridium, analysis 7439-99-6, Iron, analysis 7439-90-9, Krypton, analysis 7439-91-0, Lanthanum, analysis 7439-92-1, Lead, analysis 7439-93-2, Lithium, analysis 7439-94-3, buttetium, analysis 7439-95-4, Magnesium, analysis 7439-96-5, Manganese, analysis 7439-97-6, Mercury, analysis 7439-98-7, Molybdenum, analysis 7439-99-8, Neptunium, analysis 7440-00-8, Neodymium, analysis 7440-01-9, Neon, analysis 7440-01-0, Nickel, analysis 7440-03-1, Niobium, analysis 7440-04-2, Osmium, analysis 7440-05-3, Palladium, analysis

```
7440-06-4, Platinum, analysis 7440-07-5, Plutonium, analysis
     7440-08-6, Polonium, analysis 7440-10-0, Praseodymium, analysis
     7440-11-1, Mendelevium, analysis 7440-12-2, Promethium, analysis
     7440-13-3, Protactinium, analysis 7440-14-4, Radium, analysis
     7440-15-5, Rhenium, analysis 7440-16-6, Rhodium, analysis
     7440-18-8, Ruthenium, analysis 7440-19-9, Samarium, analysis 7440-20-2, Scandium, analysis 7440-21-3, Silicon, analysis
     7440-22-4, Silver, analysis 7440-23-5, Sodium, analysis 7440-24-6,
     Strontium, analysis 7440-25-7, Tantalum, analysis 7440-26-8,
    Technetium, analysis 7440-27-9, Terbium, analysis 7440-28-0,
    Thallium, analysis 7440-29-1, Thorium, analysis 7440-31-5, Tin,
    malysis 7440-32-6, Titanium, analysis 7440-33-7, Tungsten, analysis 7440-34-8, Actinium, analysis 7440-35-9, Mericium, 7440-36-0, Antimony, analysis 7440-38-2, Arsenic,
    analysis 7440-39-3, Barium, analysis 7440-40-6, Berkelium,
    analysis 7440-41-7, Bervllium, analysis 7440-42-8, Boron, analysis
     7440-43-9, Cadmium, analysis 7440-45-1, Cerium, analysis
    7440-46-2, Cesium, analysis 7440-47-3, Chromium, analysis
    7440-48-4, Cobalt, analysis 7440-50-8, Copper, analysis 7440-51-9, Curium, analysis 7440-52-0, Erbium, analysis 7440-53-1, Europium,
     analysis 7440-54-2, Gadolinium, analysis 7440-55-3, Gallium,
    analysis 7440-56-4, Germanium, analysis 7440-57-5, Gold, analysis
    7440-58-6, Hafnium, analysis 7440-60-0, Holmium, analysis
    7440-61-1, Uranium, analysis 7440-62-2, Vanadium, analysis
     7440-63-3, Xenon, analysis 7440-64-4, Ytterbium, analysis
     7440-65-5, Yttrium, analysis 7440-66-6, Zinc, analysis 7440-67-7,
     Zirconium, analysis 7440-68-8, Astatine, analysis 7440-69-9,
    Bismuth, analysis 7440-70-2, Calcium, analysis 7440-71-3,
    Californium, analysis 7440-72-4, Fermium, analysis 7440-73-5,
    Francium, analysis 7440-74-6, Indium, analysis 7704-34-9, Sulfur,
    analysis 7723-14-0, Phosphorus, analysis 7726-95-6, Bromine,
    analysis 7782-41-4, Fluorine, analysis 7782-49-2, Selenium, analysis 7782-50-5, Chlorine, analysis 10028-14-5, Nobelium,
     analysis 10043-92-2, Radon, analysis 13494-80-9, Tellurium,
    analysis 53850-36-5, Rutherfordium, analysis
       (determination of elements in body fluids and test kit including the
       necessary reagents for diagnosis of diseaseses caused by elemental
       imbalances)
IT 54-64-8, Thiomersal 60-10-6, Dithizone 61-73-4, Methylene blue
     62-38-4, Phenylmercury acetate 66-71-7, 1,10-Phenanthroline
     72-48-0, Alizarin 75-17-2, Form-aldoxime 81-64-1, Quinizarin
     81-88-9, Rhodamine B 85-85-8, PAN 91-95-2, 3,3'-Diaminobenzidine
     93-42-5, Thionalide 95-45-4, Dimethylglyoxime 95-54-5,
     o-Phenylenediamine, biological studies 95-83-0,
     4-Chloro-o-phenylenediamine 106-50-3, p-Phenylenediamine, biological
     studies 107-27-7, Ethylmercury chloride 123-54-6, Acetylacetone,
     biological studies 129-16-8, Mercurochrome 130-22-3, Alizarin red
     S 135-52-4, Zincon 138-85-2, PCMB 138-89-6,
     p-Nitroso-N, N-dimethylaniline 140-22-7, Diphenylcarbazide
     143-66-8, Kalibor 147-84-2, biological studies 148-18-5, Na-DDTC
     148-24-3, Oxine, biological studies 148-25-4, Chromotropic acid
    149-45-1, Tiron 294-93-9D, 12-crown-4, derivs. 301-04-2, Lead
    acetate 303-07-1, 2,6-Dihydroxybenzoic acid 458-37-7, Curcumin
    480-16-0, Morin 484-11-7, Neocuproin 491-33-8, Thiooxine
     492-18-2, Mersalyl 496-74-2, Toluene-3, 4-dithiol 506-61-6,
    Potassium silver cyanide 507-28-8, Tetraphenylarsonium chloride
     520-10-5, Neo-thorin 522-27-0, α-Furildioxime 538-62-5,
     Diphenylcarbazone 541-09-3, Diacetatodioxouranium 548-62-9,
    Crystal violet 554-77-8, PCMBS 562-76-5, Dipotassium platinum
     tetracyanide 569-58-4, Aluminon 569-61-9, Pararosaniline
```

569-64-2, Malachite green 592-04-1, Mercury Cvanide (Hg(CN)2) 592-63-2 603-48-5, Leuco crystal violet 633-03-4, Brilliant green 637-31-0. Bindschedler's green leuco base 643-79-8, o-Phthalaldehyde 771-97-1, 2,3-Diaminonaphthalene 773-76-2, 5,7-Dichlorooxine 826-81-3, 2-Methyloxine 975-17-7, Phenylfluorone 979-88-4, Disodium 2,2'-bicinchoninate 1020-31-1, 3,5-Di-tert-butylcatechol 1046-56-6, PDT 1072-71-5, Bismuthiol 1141-59-9, PAR 1149-16-2, Glyoxal bis(2-hydroxyanil) 1184-63-0, Europium triacetate 1226-46-6 1251-85-0, Diantipyrylmethane 1308-96-9, Europium trioxide 1314-64-3, Uranvl sulfate 1600-27-7, Mercury acetate 1611-35-4, Xylenol orange 1667-99-8 1668-00-4, Arsenazo III 1738-02-9, Sulfonazo III 1914-99-4, Chlorophosphonazo-III 1945-78-4, Bis(2-benzothiazoly1)methane 1964-89-2, Dinitrosulfonazo III 2050-14-8, o,o'-Dihydroxyazobenzene 2103-73-3, Sulfochlorophenol-S 2235-25-8, Ethylmercury phosphate 2312-73-4, BPA 2390-59-2, Ethyl violet 3051-09-0, Murexide 3147-14-6, Calmagite 3449-05-6, Salicylideneamino-2-thiophenol 3627-04-1, Beryllon III 3682-35-7, TPTZ 3688-92-4, Thorin 4386-25-8, Lumogallion 4552-64-1, 3-Buten-2-one, 1,1,1-trifluoro-4-mercapto-4-(2-thienyl)- 4733-39-5, Bathocuproin 6098-81-3, o-Nitrophenylfluorone 6358-20-9, 2-Nitroso-5-diethylaminophenol 7249-72-1 7487-94-7, Mercury chloride (HgCl2), biological studies 7647-10-1, Palladium chloride 7758-95-4, Lead chloride 7761-88-8, Silver nitrate, biological studies 7772-99-8, Tin chloride, biological studies 7783-33-7 7791-29-9 10025-98-6, Dipotassium tetrachloropalladate 10025-99-7, Dipotassium platinum tetrachloride 10035-10-6, Hydrogen bromide, biological studies 10042-88-3, Terbium chloride (TbCl3) 10099-74-8, Lead nitrate 10102-05-3, Palladium nitrate 10102-06-4, Uranium dinitrate dioxide 10168-81-7, Gadolinium nitrate 10361-83-8, Samarium trinitrate 10465-27-7, Samarium triacetate 11098-84-3, Ammonium molybdate 13435-46-6, Barium chloranilate 13472-45-2 13569-63-6, Rhenium trichloride 13682-61-6, Potassium tetrachloroaurate 13746-89-9 13766-44-4, Mercury sulfate 13815-39-9, Dipotassium tetranitroplatinate 13823-29-5 13826-93-2, Dipotassium tetrabromopalladate 13967-50-5, Potassium auro cyanide 14024-41-0, Potassium iridium chloride (K3IrCl6) 14096-51-6 14178-30-4, syn-Phenyl-2-pyridylketoxime 14337-53-2, 5-Br-PADAP 14337-54-3 14708-55-5 14708-99-7, Tris (1,10-phenanthroline)iron(2+) 15189-51-2, Sodium tetrachloroaurate 15584-Arsenate 15702-05-3, Sodium iridium chloride (Na3IrC16) 15189-51-2, Sodium tetrachloroaurate 15584-04-0, 16056-77-2, Gadolinium triacetate 16574-43-9, Bromopyrogallol red 16761-04-9, 2-Nitroso-5-dimethylaminophenol 16871-60-6, Dipotassium hexachloroosmate(2-) 16905-14-9, Dipotassium hexaiodoplatinate 16921-30-5, Dipotassium platinum hexachloride 16922-12-6, Ytterbium acetate 17654-88-5 19426-75-6, Potassium fluouranate(VI) (K3(UO2F5)) 19718-36-6, Dipotassium osmate 26035-31-4 28048-33-1, Benzenesulfonic acid, 4,4'-[3-(2-pyridyl)-as-triazine-5,6-diyl]di-, disodium salt 29416-86-2, 1H-Perimidin-2-amine, hydrochloride 30136-15-3, Nitrocatechol 32266-60-7, Azomethine-H 33006-91-6, 5-C1-PADAB 33100-27-5D, 15-Crown-5, nitrophenylazo derivs. 35218-75-8, TPPS 38673-65-3, Tetrakis(4-N-methylpyridyl)porphine 40835-97-0, Calcium bis[4-(1,1,3,3-tetramethylbutyl)phenyl] phosphate 42055-55-0 50768-75-7, 4-(5-Bromo-2-pyridylazo)-1,3-diaminobenzene 55034-79-2, PV 65271-28-5, Dimethylsulfonazo-III 67708-10-5, 2,4-Dinitro-1,8-naphthalenediol 69104-18-3 72833-87-5, 2-(3,5-Dibromopyridylazo)-5-(dimethylamino)benzoic acid 73630-23-6, Ouin 2 75964-78-2, Cesibor 79551-14-7, Ferene S 80459-15-0, 2-Nitroso-5-(N-propyl-N-sulfopropylamino)phenol 81342-98-5,

```
Bis[2-(5-chloro-2-pyridylazo)-5-(diethylamino)phenol]cobalt(III)
    chloride 81608-06-2, 2-(5-Bromo-2-pyridylazo)-5-(N-propyl-N-
    sulfopropylamino)phenol 82138-69-0, TAMSMB
                                                  83104-85-2, Ouin 2AM
    83474-84-4, Samarium tetrachloride 83688-78-2,
    2-(2-Benzothiazolylazo)-5-dimethylaminobenzoic acid 83907-40-8, SPQ
    85079-16-9, 2-Thiophenesulfonic acid,
    5,5',5'',5'''-(21H,23H-porphine-5,10,15,20-tetrayl)tetrakis-
    87035-61-8, 2-(5-Bromo-2-pyridylazo)-5-(N-propyl-N-
    sulfopropylamino)aniline 96314-96-4. Indo 1 96314-98-6. Fura 2
    98645-85-3, Bathocuproine disulfonic acid disodium salt 98645-86-4,
    Batho-phenanthroline disulfonic acid disodium salt 100743-65-5,
    4-(3,5-Dibromo-2-pyridylazo)-N-ethyl-N-sulfopropylaniline
    102725-12-2D, Me derivs. 106868-21-7, 6.6-Dibenzyl-14-crown-4
    108964-32-5, Fura 2AM 112926-02-0, Indo 1AM 121714-22-5, Fluo 3AM
    123632-39-3, Fluo 3 127689-06-9, Dotite Alfusone 139542-74-8,
    2-(5-Nitro-2-pyridylazo)-5-[N-propyl-N-(3-sulfopropyl) amino] phenol
    151460-00-3, TTD-14-crown-4 162558-52-3, Quinolinium,
    1-(2-ethoxy-2-oxoethy1)-6-methoxy-, bromide 181530-09-6, Acetic
    acid, [[2-methv1-8-[[(4-methvlphenvl)sulfonvl]amino]-6-quinolinvl]oxv]-
     , ethyl ester 617691-88-0 618084-93-8 618086-59-2D, phospho
    derivs. 618104-70-4, Pyrogallol Red AM
       (determination of elements in body fluids and test kit including the
       necessary reagents for diagnosis of diseaseses caused by elemental
       imbalances)
OS.CITING REF COUNT:
                              THERE ARE 4 CAPLUS RECORDS THAT CITE THIS
                        4
                              RECORD (4 CITINGS)
REFERENCE COUNT:
                        66
                              THERE ARE 66 CITED REFERENCES AVAILABLE FOR
                              THIS RECORD. ALL CITATIONS AVAILABLE IN THE
                              RE FORMAT
L49 ANSWER 4 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN
                       2000:90173 HCAPLUS Full-text
ACCESSION NUMBER:
DOCUMENT NUMBER:
                        132:259764
TITLE:
                        The extraction chromatography of copper (II) with
                       trioctylphosphine oxide
AUTHOR(S):
                       Rokade, M. D.; Dhadke, P. M.
CORPORATE SOURCE:
                       Inorganic Chemistry Laboratory, Department of
                        Chemical Technology, University of Bombay, Mumbai,
                        400 019, India
                        Research Journal of Chemistry and Environment (
SOURCE:
                        1999), 3(3), 43-46
                        CODEN: RJCEF7; ISSN: 0972-0626
PUBLISHER:
                        Research Journal of Chemistry and Environment
DOCUMENT TYPE:
                        Journal
LANGUAGE:
                        English
ED Entered STN: 09 Feb 2000
     The separation of copper by extraction chromatog, was studied using
     trioctylphosphine oxide (TOPO) absorbed on hydrophobic silica gel. The
     separation of copper from large number elements in binary mixts. was carried
     out by exploiting the difference in their extractability with TOPO at
     different concentration of HCl. It was also found possible to sep. copper
     from multicomponent mixture by using the difference in concentration of acids,
     with which they are eluted out of the stationary phase. The column
     performance as a function of flow rate and temperature was studied for the
```

7440-05-3, Palladium, analysis

(copper determination in mixts. and alloys by extraction chromatog. with trioctylphosphine oxide and spectrophotometry)

extraction of copper. The method was extended for the determination of copper

7440-05-3 HCAPLUS RN

in real samples.

AB

CN Palladium (CA INDEX NAME)

Pd

IT 115-41-3, Pyrocatechol violet

(copper determination in mixts. and alloys by extraction chromatog. with trioctylphosphine oxide and spectrophotometry)

RN 115-41-3 HCAPLUS

CN 1,2-Benzenediol, 4,4'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis-(CA INDEX NAME)

CC 79-4 (Inorganic Analytical Chemistry) Section cross-reference(s): 56

IT 7429-90-5, Aluminum, analysis 7439-89-6, Iron, analysis 7439-96-5, Manganese, analysis 7440-02-0, Mickel, analysis 7440-05-3, Palladium, analysis 7440-02-0, Mickel, analysis 7440-31-5, Tin, analysis 7440-32-6, Titanium, analysis 7440-36-0, Antimony, analysis 7440-34-9, Cadmium, analysis 7440-48-4, Cobalt, analysis 7440-50-8, Copper, analysis 7440-66-6, Zinc, analysis (copper determination in mixts. and alloys by extraction chromatog, with

trioctylphosphine oxide and spectrophotometry)
78-50-2, Trioctylphosphine oxide 79-40-3, Rubeanic acid

115-41-3, Pyrocatechol violet 302-04-5, Thiocyanate, uses

525-05-3, Nitroso-R salt 1141-59-9, PAR 3051-09-0, Murexide

(copper determination in mixts. and alloys by extraction chromatog. with trioctylphosphine oxide and spectrophotometry)

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 5 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1997:482217 HCAPLUS Full-text

DOCUMENT NUMBER: 127:225740

ORIGINAL REFERENCE NO.: 127:43915a,43918a

TITLE: Formation of binary, binucleating and mixed metal

complexes of catechol violet

AUTHOR(S): Upadhya, Poonam; Singh, Mamta; Vimal, Rashmi;

Nayan, Ram

CORPORATE SOURCE: Department of Chemistry, Hindu College, Moradabad,

244 001, India

SOURCE: Journal of the Indian Chemical Society (

1997), 74(5), 367-372

CODEN: JICSAH; ISSN: 0019-4522

Indian Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

PUBLISHER:

ED Entered STN: 02 Aug 1997

AB PH-metric studies on interaction of NiII, CuII, ZnII, PdII, AgI and CdII with 3, 4', 4'-trihydroxyfuchsome-2'-sulfonic acid (catechol violet, CAV) have been carried out in aqueous solution at 25° and an ionic strength of 0.1 M KNO3. Studies reveal the formation of the species MHZA, MHA, MA (M = NiII, CuII, ZnII, PdII, AgI and CdII); PdA(GH)3-; MHZA)2, MHZA) (HA) (HA)2 (M = NiII, CuII, ZnII, PdII, GdII); MCA(GH)3-1, MCA) (M = NiII, CuII, ZnII, CuII); MCA (M = NiII, CuII, ZnII, PdII, CuII); MCA (M = NiII, CuII, ZnII, PdII, CuII); MCA (M = NiII, CuII, ZnII, CuII); MCA (M = NiII, CuII); MCA (M = NiII); MCA (M = NIII, CuII); MCA (M = NIII); MCA (M = NIII

IT 115-41-3D, Catechol violet, metal complexes

7440-05-3D, Palladium, catechol violet complexes, properties (formation of binary, binuclear and mixed metal complexes of catechol violet)

RN 115-41-3 HCAPLUS

CN 1,2-Benzenediol, 4,4'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis-(CA INDEX NAME)

RN 7440-05-3 HCAPLUS

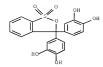
CN Palladium (CA INDEX NAME)

Pd

IT 115-41-3, Catechol violet (proton-ligand dissociation constant of catechol violet)

RN 115-41-3 HCAPLUS

CN 1,2-Benzenediol, 4,4'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis-(CA INDEX NAME)



68-3 (Phase Equilibriums, Chemical Equilibriums, and Solutions) 115-41-3D, Catechol violet, metal complexes 7440-02-0D, Nickel, catechol violet complexes, properties 7440-05-3D, Palladium, catechol violet complexes, properties 7440-22-4D, Silver, catechol violet complexes, properties 7440-43-9D, Cadmium, catechol violet complexes, properties 7440-50-8D, Copper, catechol violet complexes, properties 7440-66-6D, Zinc, catechol violet complexes, properties

(formation of binary, binuclear and mixed metal complexes of catechol violet)

115-41-3, Catechol violet

(proton-ligand dissociation constant of catechol violet)

OS CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L49 ANSWER 6 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1996:437026 HCAPLUS Full-text

DOCUMENT NUMBER: 125:184290

ORIGINAL REFERENCE NO.: 125:34193a,34196a

TITLE: Determination of trace gold and palladium in

geological samples by atomic absorption spectrometry with separation and enrichment of

chromeazurol-s chelate forming resin

AUTHOR(S): Bao, Changli; Li, Zengwen; Zhang, Kai; Shun,

Qizhi; Chen, Yue Zhang

CORPORATE SOURCE: Dep. of Applied Chemistry, Changchun Univ. of Earth Sciences, Changchun, 130026, Peop. Rep.

China

SOURCE: Microchemical Journal (1996), 54(1), 1-7

CODEN: MICJAN; ISSN: 0026-265X

PUBLISHER: Academic DOCUMENT TYPE: Journal LANGUAGE: English

Entered STN: 24 Jul 1996 ED

A method for the synthesis of chromeazurol-s (CA-S) chelate forming resin and the determination of traces of Au and Pd in geol. samples is presented. Au and Pd in solution are enriched on chromeazurol-s chelate forming resin column in pH 1 HCl without adsorbing other base metal ions, and are eluted with 3% acidic thiourea. The eluate is determined directly by flame atomic absorption spectrometry. Operating parameters were studied. The relative standard deviations (n = 6) of Au and Pd are 8.50 and 7.24%.

7440-05-3, Palladium, analysis

(determination of trace gold and palladium in geol. samples by atomic absorption spectrometry with separation and enrichment of chromeazurol-s chelate forming resin)

RM 7440-05-3 HCAPLUS

CN Palladium (CA INDEX NAME) Рd

IT 1667-99-8, Chromeazurol-s

(determination of trace gold and palladium in geol. samples by atomic absorption spectrometry with separation and enrichment of chromeazurol-schelate forming resin)

RN 1667-99-8 HCAPLUS

CN Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)(2,6-dichloro-3-sulfophenyl)methyl]-2-hydroxy-3-methyl-, sodium salt (1:3) (CA INDEX NAME)

3 Na.

CC 79-6 (Inorganic Analytical Chemistry)

Section cross-reference(s): 53

7440-05-3, Palladium, analysis 7440-57-5, Gold, analysis (determination of trace gold and palladium in geol. samples by atomic absorption spectrometry with separation and enrichment of chromeazurol-s chelate forming resin)

IT 1667-99-8, Chromeazurol-s

(determination of trace gold and palladium in geol. samples by atomic absorption spectrometry with separation and enrichment of chromeazurol-s chelate forming resin)

OS.CITING REF COUNT: 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)

L49 ANSWER 7 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1995:847834 HCAPLUS Full-text DOCUMENT NUMBER: 124:20458

ORIGINAL REFERENCE NO.: 124:3727a,3730a

TITLE: Thiolometry AUTHOR(S): Ryabushko, O. P.

CORPORATE SOURCE: T. G. Shevchenko Kiev State Univ., Kiev, Ukraine

SOURCE: Khimiva i Tekhnologiya Vody (1994),

16(4), 409-15

CODEN: KTVODL; ISSN: 0204-3556

PUBLISHER: Naukova Dumka
DOCUMENT TYPE: Journal
LANGUAGE: Russian

ED Entered STN: 11 Oct 1995

- AB Thiolometry is chelatometric titration using S-bonding reagents with thiol and thione functional groups, which are more selective than complexones. The author has formulated principles of development of the theory and practice of application of S-containing reagents in titrimetric anal. as titrants; reagents for masking, isolation, concentration; selective metallo-chromic indicators and indicator ion-selective electrodes based on metal chelates with S-containing reagents as ion-active substances.
- IT 7440-05-3, Palladium, analysis

(thiolometric S-bonding reagents with thiol and thione functional groups for chelating titration metal detns.)

- RN 7440-05-3 HCAPLUS
- CN Palladium (CA INDEX NAME)

Pd

IT 115-41-3, Pyrocatechin violet

(thiolometric S-bonding reagents with thiol and thione functional groups for chelating titration metal detns.)

- RN 115-41-3 HCAPLUS
- CN 1,2-Benzenediol, 4,4'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis-(CA INDEX NAME)

- CC 79-3 (Inorganic Analytical Chemistry)
- TT 7439-89-6, Iron, analysis 7439-92-1, Lead, analysis 7439-96-5, Manganese, analysis 7439-97-6, Mercury, analysis 7440-02-0, Nickel, analysis 7440-05-3, Palladium, analysis 7440-22-4, Silver, analysis 7440-28-0, Thallium, analysis 7440-31-5, Tin, analysis 7440-43-9, Cadmium, analysis 7440-50-8, Copper, analysis 7440-57-5, Gold, analysis 7440-66-6, Zinc, analysis 7440-69-9, Bismuth, analysis 7440-74-6, Indium, analysis 7440-69-9, Cadmium, analysis 7440-74-6, Indium, anal

(thiolometric S-bonding reagents with thiol and thione functional groups for chelating titration metal detns.)

- IT 60-10-6, Dithizone 60-10-6D, Dithizone, sulfonated 115-41-3, Pyrocatechin violet 1141-59-9,
- 4(2-Pyridylazo)resorcinol 1611-35-4, Xylenol orange 1772-02-7,
- Sulfarsazen 1787-61-7, Eriochrome Black T 32389-54-1,
 - Pyridylazonaphthol 32638-88-3, Pyrogallol red

(thiolometric S-bonding reagents with thiol and thione functional groups for chelating titration metal detns.)

L49 ANSWER 8 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1994:691506 HCAPLUS Full-text

DOCUMENT NUMBER: 121:291506

ORIGINAL REFERENCE NO.: 121:53027a,53030a

TITLE: Triethanolamine as a releasing agent for

> controlling interferences in the atomic absorption spectrometric determination of gold and its use as

a collector for the flotation of gold

AUTHOR(S): Ghazy, Shaban E.; Kabil, Mohamed A.; Mostafa,

Mohamed A.

CORPORATE SOURCE: Fac. Sci., Mansoura Univ., Mansoura, Egypt

SOURCE: Journal of Analytical Atomic Spectrometry (1994), 9(8), 857-60

CODEN: JASPE2: ISSN: 0267-9477 DOCUMENT TYPE: Journal

LANGUAGE: Enalish

Entered STN: 10 Dec 1994 ED

AB The interfering effects of a range of organic and inorg, species on the atomic absorption signal of gold were studied. These interferences were completely eliminated by adding 6 mmol/L triethanolamine (TEA) to both the sample and standard solns. The role of TEA was extended to the extraction of gold, with 100% recovery, from aqueous solns., using oleic acid as a surfactant at a pH of 0.5-2.0. A mechanism for the effect of TEA in the flotation and in the atomic absorption study was suggested. A simple, sensitive and rapid procedure for flotation and the atomic absorption spectrometric determination of gold in synthetic mixts, and natural waters was elaborated.

115-39-9, Bromophenol blue 115-41-3, Catechol

7440-05-3, Palladium, analysis violet

(interferant; triethanolamine for control of interferences in gold determination by atomic absorption)

RN 115-39-9 HCAPLUS

CN Phenol, 4,4'-(1,1-dioxido-3H-2,1-benzoxathiol-3-vlidene)bis[2,6dibromo- (CA INDEX NAME)

RN 115-41-3 HCAPLUS

1,2-Benzenediol, 4,4'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis-(CA INDEX NAME)

RN 7440-05-3 HCAPLUS Palladium (CA INDEX NAME)

CN

RN

CN

7440-05-3 HCAPLUS Palladium (CA INDEX NAME)

```
CC 79-6 (Inorganic Analytical Chemistry)
    Section cross-reference(s): 61
IT
    56-40-6, Glycine, analysis 60-00-4, Ethylenediaminetetraacetic acid,
    analysis 97-05-2, Sulfosalicylic acid 115-39-9,
    Bromophenol blue 115-41-3, Catechol violet 139-13-9,
    Nitrilotriacetic acid 623-59-6, Acetylmethyl urea 7440-02-0,
    Nickel, analysis 7440-05-3, Palladium, analysis
    7440-06-4, Platinum, analysis 7440-16-6, Rhodium, analysis
    7440-18-8, Ruthenium, analysis 7440-48-4, Cobalt, analysis
    13291-61-7, trans-1,2-Diaminocyclohexane-N,N,N',N'-tetraacetic acid
        (interferant; triethanolamine for control of interferences in gold
       determination by atomic absorption)
OS.CITING REF COUNT:
                              THERE ARE 4 CAPLUS RECORDS THAT CITE THIS
                              RECORD (4 CITINGS)
L49 ANSWER 9 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER:
                        1994:686721 HCAPLUS Full-text
DOCUMENT NUMBER:
                        121:286721
ORIGINAL REFERENCE NO.: 121:52234h,52235a
TITLE:
                        Analytical applications using aurintricarboxylic
                        acid for spectrophotometric determination of iron
                        (III), copper (II) and palladium (II). Estimation
                        of iron in some pharmaceutical preparations
AUTHOR(S):
                        El-Sheikh, R.; Shalaby, A.; Zaky, M.
CORPORATE SOURCE:
                        Faculty Science and Pharmaceutical Chemistry,
                        Zagazig University, Zagazig, Egypt
SOURCE:
                        Egyptian Journal of Chemistry (1993),
                        36(1), 55-60
                        CODEN: EGJCA3; ISSN: 0367-0422
PUBLISHER:
                        National Information and Documentation Centre
DOCUMENT TYPE:
                        Journal
LANGUAGE:
                        English
ED
   Entered STN: 10 Dec 1994
     A spectrophotometric study of the reaction between Aurintricarboxylic acid and
     Fe (III), Cu(II), and Pd(II) ions have shown that 1:1 and 1:2 violet water-
     soluble-complexes were formed at pH 8. The organic reagent was found to be
     very suitable for spectrophotometric determination of Fe (III), Cu(II) and
     Pd(II) up to 10.800, 6.40 and 12.50 ppm, resp. The application of the ligand
     as an indicator in the spectrophotometric titration of Fe(III), Cu(II), and
     Pd(II) with EDTA and the interference of various cations and anions were
     reported. This method was applied to some pharmaceutical prepns. for
    estimation of iron.
    7440-05-3, Palladium, analysis
       (determination of iron, copper and palladium in pharmaceutical prepns, by
       spectrophotometry using aurintricarboxylic acid)
```

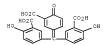
DА

IT 4431-00-9, Aurintricarboxylic acid

(determination of iron, copper and palladium in pharmaceutical prepns. by spectrophotometry using aurintricarboxylic acid)

RN 4431-00-9 HCAPLUS

CN Benzoic acid, 3,3'-[(3-carboxy-4-oxo-2,5-cyclohexadien-1-ylidene)methylene]bis[6-hydroxy- (CA INDEX NAME)



CC 64-4 (Pharmaceutical Analysis)

IT 7439-89-6, Iron, analysis 7440-05-3, Palladium, analysis

7440-50-8, Copper, analysis

(determination of iron, copper and palladium in pharmaceutical prepns. by spectrophotometry using aurintricarboxylic acid)

IT 4431-00-9, Aurintricarboxylic acid

(determination of iron, copper and palladium in pharmaceutical prepns. by spectrophotometry using aurintricarboxylic acid)

L49 ANSWER 10 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1994:207456 HCAPLUS Full-text DOCUMENT NUMBER: 120:207456

ORIGINAL REFERENCE NO.: 120:36455a,36458a

TITLE: Eriochrome Azurol G (CAG) as a spectrophotometric

analytical reagent

AUTHOR(S): Gorka, Piotr; Kowalski, Stanislaw

CORPORATE SOURCE: Silesian Tech. Univ., Gliwice, Pol.

SOURCE: Zeszyty Naukowe Politechniki Slaskiej, Chemia (

1993), 1145(127), 81-9

CODEN: ZNSCAM; ISSN: 0372-9494

DOCUMENT TYPE: Journal LANGUAGE: Polish

ED Entered STN: 16 Apr 1994

AB The usability of CAG as spectrophotometric anal. reagent was based on comparison of the method of Y determination with CAG and with similar reagents such as Chrome Azurol S, Eriochrome Cyanine R, and Eriochrome Azurol B in a binary system metal-CAG and with addition of cetyltrimethylammonium bromide. Conditions for spectrophotometric determination of Ti(IV), Fe(III), Pd(II), CC(II), and Ni(II) were also established.

IT 3267-40-1, Eriochrome Azurol G

(as spectrophotometric reagent)

RN 3267-40-1 HCAPLUS

Enzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)(2,3,6-trichlorophenyl)methyl]-2-hydroxy-3-methyl-, sodium salt (1:2) (CA INDEX NAME)

2 Na

IT 7440-05-3, Palladium, analysis (determination of, Eriochrome Azurol G in spectrophotometric)

RN 7440-05-3 HCAPLUS

CN Palladium (CA INDEX NAME)

?d

CC 79-3 (Inorganic Analytical Chemistry)

IT 3267-40-1, Eriochrome Azurol G

(as spectrophotometric reagent)

T 7439-89-6, Iron, analysis 7440-02-0, Nickel, analysis 7440-05-3, Palladium, analysis 7440-32-6, Titanium, analysis 7440-48-4, Cobalt, analysis 7440-65-5, Yttrium, analysis (determination of, Eriochrome Azurol G in spectrophotometric)

L49 ANSWER 11 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1991:16758 HCAPLUS Full-text DOCUMENT NUMBER: 114:16758

ORIGINAL REFERENCE NO.: 114:2839a,2842a

TITLE: Study on chromogenic reaction of palladium(II) with Chrome Azurol B-cetyldimethylammonium

acetate-Triton X-100 and its application

AUTHOR(S): Yang, Dingguo

CORPORATE SOURCE: Dep. Text. Chem., Northwest Text. Inst., Xian,

710048, Peop. Rep. China SOURCE: Fenxi Shiyanshi (1990), 9(3), 66-7

SOURCE: Fenxi Shiyanshi (1990), 9(3), 66-CODEN: FENSE4; ISSN: 1000-0720

DOCUMENT TYPE: Journal LANGUAGE: Chinese ED Entered STN: 12 Jan 1991

AB Pd was determined in Pd concs. by measuring the absorbance at 345 nm of the complex formed by reaction with Chrome Azurol S (I) in presence of cetyldimethyl(carboxymethylammonium chloride (II) and Triton X-100 (III) in pH 6.8 phthalate buffer solution The absorbance was measured 20 min after the mixing of the reagents. The molar absorptivity of Pd-I-IIII complex was 1.3 + 105.1/mol/cm. The ratio of Pd-I was 1:1 in the complex. There was no finite composition of II and III in the complex. The absorbance was stable

for 24 h. Beer's law was obeyed in the concentration range 0-4.0 μg Pd/25 mL. The relative error was $\leq 5\%$.

IT 7440-05-3, Palladium, analysis

(determination of, in palladium concs. by spectrophotometry)

RN 7440-05-3 HCAPLUS

CN Palladium (CA INDEX NAME)

Pd

IT 1667-99-8, Chrome Azurol S

(in palladium determination by spectrophotometry)

RN 1667-99-8 HCAPLUS

CN Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene) (2,6-dichloro-3-sulfophenyl)methyl]-2-hydroxy-3-methyl-, sodium salt (1:3) (CA INDEX NAME)

3 Na

II 3564-17-8D, palladium complex 7440-05-3D, Palladium, Chrome Azurol S complex (molar absorptivity of)

RN 3564-17-8 HCAPLUS

CN Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1ylidene](2,6-dichloro-3-sulfophenyl)methyl]-2-hydroxy-3-methyl- (CA INDEX NAME)

RN 7440-05-3 HCAPLUS

THERE ARE 1 CAPLUS RECORDS THAT CITE THIS

```
79-6 (Inorganic Analytical Chemistry)
```

7440-05-3, Palladium, analysis ТТ

(determination of, in palladium concs. by spectrophotometry) 1667-99-8, Chrome Azurol S 9002-93-1, Triton X-100

24000-75-7 (in palladium determination by spectrophotometry)

3564-17-8D, palladium complex 7440-05-3D,

Palladium, Chrome Azurol S complex

(molar absorptivity of)

OS.CITING REF COUNT:

RECORD (1 CITINGS)

1

L49 ANSWER 12 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1990:228948 HCAPLUS Full-text

DOCUMENT NUMBER: 112:228948

ORIGINAL REFERENCE NO.: 112:38411a,38414a

TITLE: Determination of palladium in catalyst using palladium(II)-Chrome Azurol S-zephiramine system

AUTHOR(S): Huang, Dejiang; Guo, Jin

CORPORATE SOURCE: Beijing Inst. Chem. Technol., Beijing, Peop. Rep.

China

SOURCE: Huaxue Shiji (1989), 11(6), 373-4 CODEN: HUSHDR; ISSN: 0258-3283

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

ED Entered STN: 09 Jun 1990

AB Pd(II) reacts with Chrome Azurol S and zephiramine to form a ternary complex and Pd was determined by measuring the absorbances of the complex at 620 nm (molar absorptivity 6.5 + 104 L mol-1 cm-1). Beer's law is obeyed for 0-04 μg Pd/25 mL. Pd was determined in catalysts by the method and the results were satisfactory.

7440-05-3, Palladium, analysis

(determination of, by spectrophotometry)

7440-05-3 HCAPLUS RN

Palladium (CA INDEX NAME) CN

1667-99-8, Chrome Azurol S

(in palladium determination by spectrophotometry)

RN 1667-99-8 HCAPLUS

Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-CN ylidene) (2,6-dichloro-3-sulfophenyl) methyl]-2-hydroxy-3-methyl-, sodium salt (1:3) (CA INDEX NAME)

3 Na

3564-17-8D, complex with palladium zephiramine 7440-05-3D, Palladium, ternary complex with Chrome Azurol S and zephiramine (spectrum of)

3564-17-8 HCAPLUS RN

CN Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1vlidene) (2,6-dichloro-3-sulfophenvl)methvl]-2-hvdroxv-3-methvl- (CA INDEX NAME)

7440-05-3 HCAPLUS RN

CN Palladium (CA INDEX NAME)

Pd

79-6 (Inorganic Analytical Chemistry)

IT 7440-05-3, Palladium, analysis

(determination of, by spectrophotometry)

139-08-2, Zephiramine 1667-99-8, Chrome Azurol S

(in palladium determination by spectrophotometry) 3564-17-8D, complex with palladium zephiramine

7440-05-3D, Palladium, ternary complex with Chrome Azurol S and zephiramine 16287-71-1D, Zephiramine ion, complex with palladium and Chrome Azurol S (spectrum of)

OS.CITING REF COUNT: THERE ARE 1 CAPLUS RECORDS THAT CITE THIS 1 RECORD (1 CITINGS)

L49 ANSWER 13 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1990:210150 HCAPLUS Full-text

DOCUMENT NUMBER: 112:210150

ORIGINAL REFERENCE NO.: 112:35299a,35302a

TITLE: A sensitive spectrophotometric method for the determination of palladium with Eriochrome Azurol

G and cetyltrimethylammonium chloride

AUTHOR(S): Uesugi, Katsuya; Miyawaki, Mitsuo

CORPORATE SOURCE: Dep. Chem., Himeji Inst. Technol., Himeji, 671-22,

Japan
SOURCE: Microchemical Journal (1990), 41(1),

78-83

/8-83

CODEN: MICJAN; ISSN: 0026-265X
DOCUMENT TYPE: Journal

DOCUMENT TYPE: Journal LANGUAGE: English

ED Entered STN: 26 May 1990

- AB A sensitive spectrophotometric method for the determination of palladium was studied, using Eriochrome Azurol G (EAG) as a reagent. Palladium reacts very sensitively with EAG in the presence of cetyltrimethylammonium chloride (CTMA) to form a blue complex. The palladium complex has maximum absorbance at pR 3.5-4.8 and at 645 nm. Beer's law is obeyed over the range 0.1-1.6 ppm palladium. The molar absorptivity is 73,800 L mol-1 cm-1 at 645 nm. The mole ratio of palladium and EAG in the complex is estimated to be 1:3 in the presence of CTMA. Only scandium interferes when sodium fluoride is used as a masking agent.
- IT 7440-05-3D, Palladium, Eriochrome Azurol G complex, ion associate with cetyltrimethylammonium 25747-13-1D, palladium complex, ion associate with cetyltrimethylammonium (UV-visible absorption spectrum of)
- RN 7440-05-3 HCAPLUS
- CN Palladium (CA INDEX NAME)

RN 25747-13-1 HCAPLUS

CN Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene) (2,3,6-trichlorophenyl)methyl]-2-hydroxy-3-methyl- (CA INDEX NAME)

IT 7440-05-3, Palladium, analysis

(determination of, by spectrophotometry)

RN 7440-05-3 HCAPLUS

CN Palladium (CA INDEX NAME)

Pd

II 3267-40-1, Eriochrome Azurol G

(in determination of palladium by spectrophotometry)

RN 3267-40-1 HCAPLUS

CN Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene) (2,3,6-trichlorophenyl)methyl]-2-hydroxy-3-methyl-, sodium salt (1:2) (CA INDEX NAME)

■2 Na

CC 79-6 (Inorganic Analytical Chemistry)

IT 6899-10-1D, Cetyltrimethylammonium, ion associate with palladium-Eriochrome Azurol G complex 7440-05-3D, Palladium, Eriochrome Azurol G complex, ion associate with cetyltrimethylammonium 25747-13-1D, palladium complex, ion associate with cetyltrimethylammonium

(UV-visible absorption spectrum of) 7440-05-3, Palladium, analysis

(determination of, by spectrophotometry)

IT 112-02-7, Cetyltrimethylammonium chloride 3267-40-1, Eriochrome Azurol G

(in determination of palladium by spectrophotometry)

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS

RECORD (2 CITINGS)

L49 ANSWER 14 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1989:146801 HCAPLUS Full-text

DOCUMENT NUMBER: 110:146801

ORIGINAL REFERENCE NO.: 110:24055a,24058a

TITLE: Spectrophotometric study on the color reaction of

complex of palladium with Chrome Azurol B and

cetyltrimethylammonium bromide

AUTHOR(S): Yang, Dingguo; Wu, Yunping

CORPORATE SOURCE: Dep. Text. Chem., North-West Inst. Text., Xian,

Peop. Rep. China

SOURCE: Fenxi Huaxue (1988), 16(7), 651-3

CODEN: FHHHDT; ISSN: 0253-3820

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

ED Entered STN: 15 Apr 1989

AB A color reaction of palladium with Chrome Azurol B (CAB) and cetyltrimethylammonium bromide (CTMAB) has been studied spectrophotometrically. In a buffer solution of KHCGHH404-NaOH (pH 6.8), Pd forms a green complex with CAB and CTMAB. The molar absorptivity of the complex is 8.1 + 104 L mol-1 cm-1 at 635 nm. The composition ratio of Pd to CAB to CTMAB is 1:1:3. Beer's law is obeyed for Pd in the range of 0-22 μg/25 mL. The method is simple and highly selective and has been successfully applied to the determination of Pd in ores.

IT 7440-05-3, Palladium, analysis

(determination of, by spectrophotometry)

RN 7440-05-3 HCAPLUS

CN Palladium (CA INDEX NAME)

n.d

IT 7440-05-3D, Palladium, Chrome Azurol B complex, ion associate with cetyltrimethylammonium 15012-28-9, Chrome Azurol B (in palladium determination by spectrophotometry)

RN 7440-05-3 HCAPLUS

CN Palladium (CA INDEX NAME)

n.

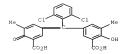
RN 15012-28-9 HCAPLUS

CN Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)(2,6-dichlorophenyl)methyl]-2-hydroxy-3-methyl- (CA INDEX NAME)

IT 15012-28-9D, palladium complex, ion associate with cetyltrimethylammonium (spectrum of)

RN 15012-28-9 HCAPLUS

CN Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)(2,6-dichlorophenyl)methyl]-2-hydroxy-3-methyl- (CA INDEX NAME)



79-6 (Inorganic Analytical Chemistry)

7440-05-3, Palladium, analysis

(determination of, by spectrophotometry) 57-09-0, Cetvltrimethylammonium bromide 7440-05-3D, Palladium, Chrome Azurol B complex, ion associate with cetyltrimethylammonium 15012-28-9, Chrome Azurol B

(in palladium determination by spectrophotometry) 15012-28-9D, palladium complex, ion associate with

cetyltrimethylammonium (spectrum of)

L49 ANSWER 15 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1986:526332 HCAPLUS Full-text

DOCUMENT NUMBER:

105:126332

ORIGINAL REFERENCE NO.:

105:20227a,20230a

TITLE:

Color reaction of the ternary complex of palladium

with Chrome Azurol S and cationic surfactant

AUTHOR(S):

Sum, Shusheng; Li, Li

CORPORATE SOURCE: SOURCE:

Beijing Univ., Beijing, Peop. Rep. China Fenxi Ceshi Tongbao (1985), 4(3), 14-17

CODEN: FCTOE8; ISSN: 1000-3800

Journal

DOCUMENT TYPE: LANGUAGE:

Chinese

ED Entered STN: 03 Oct 1986 The color reactions of Pd(II), Chrome Azurol S (I) and alkyltrimethylammonium AB bromide, where alkyl is dodecyl, tetradecyl, hexadecyl (II) and octadecyl

(III) in HOAc-NaOAc buffer solution at pH .apprx.5 were studied. Among the examined surfactants, II and III showed higher sensitivity for the color reaction with molar absorptivities (at absorption maximum 636 nm) of 1.3 + 105 and 1.19 + 105 L mol-1 cm-1, resp. Beer's law was obeyed in the range 0-25 µg Pd/25 mL in the presence of II. Ni and Pt(IV) also form complexes with I and II with absorption maximum at 512 and 587 nm, resp., thus, Pd can be determined in the presence of Ni and Pt(IV) without the interferences.

7440-05-3, analysis

(determination of, Chrome Azurol S and cationic surfactants in spectrophotometric)

RN 7440-05-3 HCAPLUS

CN Palladium (CA INDEX NAME)

PA

1667-99-8

(in determination of palladium by spectrophotometry)

1667-99-8 HCAPLUS RN

CN Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)(2,6-dichloro-3-sulfophenyl)methyl]-2-hydroxy-3-methyl-, sodium salt (1:3) (CA INDEX NAME)

●3 Na

- IT 3564-17-8D, palladium complex, alkyltrimethylammonium bromide ion associate 7440-05-3D, Chrome Azurol S complex, alkyltrimethylammonium bromide ion associate (spectra of)
- RN 3564-17-8 HCAPLUS
- CN Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)(2,6-dichloro-3-sulfophenyl)methyl]-2-hydroxy-3-methyl- (CA INDEX NAME)

- RN 7440-05-3 HCAPLUS
- CN Palladium (CA INDEX NAME)

P

- CC 79-6 (Inorganic Analytical Chemistry)
- IT 7440-05-3, analysis

(determination of, Chrome Azurol S and cationic surfactants in spectrophotometric)

- IT 57-09-0 1119-94-4 1119-97-7 1120-02-1 1667-99-8
 (in determination of palladium by spectrophotometry)
- IT 3564-17-8D, palladium complex, alkyltrimethylammonium bromide ion associate 6899-10-1D, ion associate with palladium-Chrome

Azurol S complex 7440-05-3D, Chrome Azurol S complex, alkyltrimethylammonium bromide ion associate 15461-40-2D, ion associate with palladium-Chrome Azurol S complex (spectra of)

L49 ANSWER 16 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1986:417573 HCAPLUS Full-text

DOCUMENT NUMBER: 105:17573

ORIGINAL REFERENCE NO.: 105:2789a,2792a

TITLE: Resin spot test technique for simultaneous microgram detection of nitrogen- and

sulfur-containing organic compounds

AUTHOR(S): Grdinic, Vladimir; Spoljaric, Gordana; Oresic,

Laila Stefanini

CORPORATE SOURCE: Fac. Pharm. Biochem., Univ. Zagreb, Zagreb,

Yugoslavia

SOURCE: Acta Pharmaceutica Jugoslavica (1985), 35(4), 265-74

CODEN: APJUA8; ISSN: 0001-6667

DOCUMENT TYPE: Journal LANGUAGE: English

ED Entered STN: 13 Jul 1986 Simple, reliable, and sensitive detection of N and S in organic compds. by the AB resin spot test technique is described. N is identified as cyanide with Pd-PAR resin. The identification of S as sulfide, is based on the catalytically enhanced reduction of I with sulfide on the resin. N and S together are identified as Fe(III)-thiocyanate complex on the resin. Amberlite IRA-400, in the Pd-PAR and chloride form, is used as the suitable resin. The limits of detection, concentration, dilution, and the exponent of sensitivity are

presented for 4 anal. systems. The anal. procedure was tested on 72 substances and the information contents were compared.

7440-05-3D, pyridylazoresorcinol complex

(Amberlite IRA-400 modified with, in detection of nitrogen- and sulfur-containing organic compds. by spot test)

RN 7440-05-3 HCAPLUS Palladium (CA INDEX NAME)

TT

CN

ΙT 1667-99-8

(detection of, resin spot test for)

RN 1667-99-8 HCAPLUS

CN Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1vlidene)(2,6-dichloro-3-sulfophenyl)methyl]-2-hydroxy-3-methyl-, sodium salt (1:3) (CA INDEX NAME)

3 Na

AUTHOR(S):

SOURCE:

LANGHAGE .

ED

AB

CORPORATE SOURCE:

Entered STN: 27 Jun 1986

DOCUMENT TYPE:

```
80-5 (Organic Analytical Chemistry)
                                   7440-05-3D,
    1141-59-9D, palladium complex
    pyridylazoresorcinol complex
       (Amberlite IRA-400 modified with, in detection of nitrogen- and
       sulfur-containing organic compds. by spot test)
                      54-85-3
    50-44-2
             52-26-6
                                57-67-0
                                          59-88-1
                                                    60-10-6
                                                              60-11-7
    60-35-5, analysis
                      60-56-0
                               62-55-5
                                           62-56-6, analysis
                                                              63-74-1
    66-32-0
             66-71-7
                       68-35-9
                                 71-73-8
                                           72-14-0
                                                    79-19-6
                                                              79-40-3
             85-85-8
                      88-74-4
                                                   97-05-2
    85-41-6
                                91-56-5
                                           93-42-5
                                                              97-52-9
    97-77-8
             98-96-4
                       99-61-6
                                 99-65-0
                                          99-99-0
                                                   100-02-7, analysis
    100-19-6
              103-84-4
                        106-47-8, analysis
                                            110-85-0, analysis
    120-72-9, analysis
                        121-89-1
                                   125-30-4
                                              127-69-5
                                                        127-79-7
    130-22-3
              130-89-2
                        131-91-9
                                   140-89-6
                                             147-85-3, analysis
    148-18-5
              148-24-3, analysis
                                   148-25-4
                                              149-45-1
                                                        316-42-7
              366-18-7
    328-39-2
                        496-74-2
                                    526-08-9
                                              536-17-4
                                                         536-33-4
    541-69-5
             546-88-3
                        548-62-9
                                    556-88-7
                                              580-15-4
                                                         598-41-4
                                    1667-99-8
    885-11-0 912-60-7 1083-48-3
                                                 2218-94-2
    2637-34-5
              5349-80-4 5469-69-2 6968-22-5
                                                   7283-41-2
    7704-34-9D, organic compds. 7727-37-9D, organic compds.
                                                             7775-14-6
    25486-11-7
       (detection of, resin spot test for)
L49 ANSWER 17 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER:
                       1986:230569 HCAPLUS Full-text
DOCUMENT NUMBER:
                        104:230569
ORIGINAL REFERENCE NO.: 104:36483a,36486a
TITLE:
                       Application of xanthine derivatives for analytical
                       chemistry. Part XLVI. A color reaction of
                        1,2-diphenols based on colored complex formation
                       with phenylfluorone and iron(III) and its
                        application to the assay of catecholamines in
                       pharmaceutical preparations
```

nm) of the diphenols. The optimum and stable color absorbance of the complex $32\,$

The color reaction between 1,2-diphenols, xanthine dye phenylfluorone (I) [975-17-7] and Fe(III) was used for the spectrophotometric determination (630

Kitano, Shoko; Tanaka, Takeshi

), 33(12), 5385-92 CODEN: CPBTAL; ISSN: 0009-2363

Journal

English

Osaka Coll. Pharm., Osaka, 580, Japan

Chemical & Pharmaceutical Bulletin (1985

Fujita, Yoshikazu; Mori, Itsuo; Fujita, Kinuko;

was observed at pH 8.9-9.9. Sensitivity was the highest with 5% Brij 35 [9002-92-0]. The use of 1:1 I-Fe(III) ratio was the best in terms of reactivity and stability at room temperature among metal ions examined, Cu(II) and Fe(II) interfered with the anal.; phosphate and citrate gave pos. errors and oxine, salicylic acid albumin and chondroitin sulfate gave neg. errors. The 1,2-diphenolic function with free adjacent positions was essential for the formation of the colored complex. The molar absorptivity of norepinephrine [51-41-2], a catecholamine, was 1.7 + 105 dm3 mol-1 cm-1. The method was also used for the anal. of norepinephrine and DOPA [559-50-6] in tablets (recoveries 95-102*). A color test is described for the detection of catecholamine on a spot plate.

- 115-41-3 1667-99-8
- (diphenols determination by spectrophotometry with iron and)
- RN 115-41-3 HCAPLUS
- CN 1,2-Benzenediol, 4,4'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis-(CA INDEX NAME)

- RN 1667-99-8 HCAPLUS
- CN Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-yildene)(2,6-dichloro-3-sulfophenyl)methyl]-2-hydroxy-3-methyl-, sodium salt (1:3) (CA INDEX NAME)

- 3 Na
- IT 7440-05-3, uses and miscellaneous

(diphenols determination by spectrophotometry with organic reagents in relation to)

- RN 7440-05-3 HCAPLUS
- CN Palladium (CA INDEX NAME)

Pd

```
CC 64-3 (Pharmaceutical Analysis)
    Section cross-reference(s): 1, 9
    66-71-7 115-41-3 130-22-3 148-25-4 1141-59-9
    1667-99-8 1668-00-4 2103-64-2
                                      2320-44-7 32638-88-3
        (diphenols determination by spectrophotometry with iron and)
    13408-62-3 7429-90-5, uses and miscellaneous 7439-96-5, uses and
                   7439-98-7, uses and miscellaneous
    miscellaneous
                                                        7440-04-2, uses
    and miscellaneous 7440-05-3, uses and miscellaneous
    7440-32-6, uses and miscellaneous 7440-45-1, uses and miscellaneous
    7440-48-4, uses and miscellaneous 7440-50-8, uses and miscellaneous
    7440-56-4, uses and miscellaneous 7440-62-2, uses and miscellaneous
    7440-66-6, uses and miscellaneous 7440-69-9, uses and miscellaneous
        (diphenols determination by spectrophotometry with organic reagents in
       relation to)
OS.CITING REF COUNT:
                       2
                              THERE ARE 2 CAPLUS RECORDS THAT CITE THIS
                              RECORD (2 CITINGS)
L49 ANSWER 18 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER:
                        1986:56803 HCAPLUS Full-text
DOCUMENT NUMBER:
                        104:56803
ORIGINAL REFERENCE NO.: 104:9053a,9056a
TITLE:
                        Micelle solubilizing effect of sodium
                        dodecylsulfate on color reactions between
                        Eriochrome Azurol B and metal ions
AUTHOR(S):
                        Zheng, Yongxi; Chen, Depu
CORPORATE SOURCE:
                        Dep. Chem. Chem. Eng., Tsinghus Univ., Beijing,
                        Peop. Rep. China
SOURCE:
                        Huaxue Xuebao (1985), 43(9), 868-72
                        CODEN: HHHPA4; ISSN: 0567-7351
DOCUMENT TYPE:
                        Journal
LANGUAGE:
                        Chinese
ED Entered STN: 23 Feb 1986
AR
    Color reactions of Be, Al, Cu(II), and Pd(II) with Eriochrome Azurol B were
     enhanced by solubilization in SDS micelles. There is no H bonding between SDS
     and the dye over a wide pH range. The neg. elec. field of SDS inhibits dye
     ionization increasing pKa values (2.65-3.57, 4.65-5.45, 11.8-12.20 for pKal,
     pKa2, pKa3, resp.). The Be:dye ratio in the complex increased from 1:1 to 1:2
     in the presence of CTAB, but SDS left the ratio unchanged at 1:1.
    7440-05-3, reactions
       (color reaction of divalent, with Eriochrome Azurol B, in SDS
       micelles)
RN
    7440-05-3 HCAPLUS
    Palladium (CA INDEX NAME)
CN
Pd
```

IT 1796-92-5

(color reactions of, in SDS micelles)

RN 1796-92-5 HCAPLUS

CN Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)(2,6-dichlorophenyl)methyl]-2-hydroxy-3-methyl-, sodium salt

(1:2) (CA INDEX NAME)

2 Na

CC 66-2 (Surface Chemistry and Colloids) Section cross-reference(s): 79

7440-05-3, reactions 7440-50-8, reactions

(color reaction of divalent, with Eriochrome Azurol B, in SDS micelles)

TT 1796-92-5

CORPORATE SOURCE:

SOURCE:

(color reactions of, in SDS micelles)

L49 ANSWER 19 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1983:432452 HCAPLUS Full-text

DOCUMENT NUMBER: 99:32452

ORIGINAL REFERENCE NO.: 99:4975a,4978a

TITLE: Spectrophotometric method for determining palladium(II) using Eriochrome Azurol B and

cetyltrimethylammonium bromide

AUTHOR(S): Gregorowicz, Z.; Gorka, P.; Kowalski, S.; Cebula,

J. Inst. Anal. Gen. Chem., Silesian Tech. Univ.,

Gliwice, Pol.

Mikrochimica Acta (1983), 2(3-4), 181-6

CODEN: MIACAO: ISSN: 0026-3672

DOCUMENT TYPE: Journal

LANGUAGE: German

ED Entered STN: 12 May 1984

AB Pd(II) was determined spectrophotometrically by reaction with Eriochrome Azural B (I) and cetyltrimethylammonium bromide (II) at pH 5.5 to for a ternary 1:2:4 (Pd-I-II) complex. The absorbance was measured at 645 mm (molar absorptivity = 1.15 + 105). Beer's law was obeyed for 2-10 µg Pd/10 mL. The sensitivity was 0.93 + 10-3 Pd/cm2. The stability of the complex was 6.3 + 1011. The effect of diverse ions was studied.

IT 7440-05-3, analysis

(determination of, cetyltrimethylammonium bromide and eriochrome Azural B in spectrophotometric)

RN 7440-05-3 HCAPLUS

CN Palladium (CA INDEX NAME)

D.4

IT 1796-92-5

(in palladium determination by spectrophotometry)

RN 1796-92-5 HCAPLUS

CN Benzoic acid, 5-((3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)(2,6-dichlorophenyl)methyl]-2-hydroxy-3-methyl-, sodium salt (1:2) (CA INDEX NAME)

2 Na

IT 1796-92-5D, palladium complex 7440-05-3D, cetyltrimethylammonium and Eriochrome Azural B complex (spectrum and stability constant of)

RN 1796-92-5 HCAPLUS

CN Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)(2,6-dichlorophenyl)methyl]-2-hydroxy-3-methyl-, sodium salt (1:2) (CA INDEX NAME)

●2 Na

RN 7440-05-3 HCAPLUS

CN Palladium (CA INDEX NAME)

Рđ

- CC 79-6 (Inorganic Analytical Chemistry)
- IT 7440-05-3, analysis

(determination of, cetyltrimethylammonium bromide and eriochrome ${\tt Azural}\ {\tt B}$ in spectrophotometric)

IT 57-09-0 1796-92-5

(in palladium determination by spectrophotometry)

IT 1796-92-5D, palladium complex 6899-10-1D, palladium complex 7440-05-3D, cetyltrimethylammonium and Eriochrome Azural B complex

(spectrum and stability constant of)

L49 ANSWER 20 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1983:190870 HCAPLUS Full-text

DOCUMENT NUMBER: 98:190870

ORIGINAL REFERENCE NO.: 98:28803a,28806a

TITLE: Ternary complexes of some elements with catechol

violet and cetyltrimethylammonium

AUTHOR(S): Tikhonov, V. N.; Mikhailova, A. M.; Myasnikova, I.

A.; Vanyurkina, V. I.

CORPORATE SOURCE: Chuvash State Univ., Cheboksary, USSR SOURCE: Zhurnal Analiticheskoi Khimii (1983),

38(2), 216-20

CODEN: ZAKHA8; ISSN: 0044-4502

DOCUMENT TYPE: Journal LANGUAGE: Russian

ED Entered STN: 12 May 1984

AB The metals M (Cu(II), Bi, V(IV), Mo, W, Fe(III), and Pd) can be determined spectrophotometrically as their ternary complexes with catechol violet (I) and cetyltrimethylammonium(II) at \(\lambda\)max 600-680 mm and molar absorptivities of (2.4-5.3) + 104. V(IV) and Fe(III) form complex with M:I:II ratios of 1:2:2, and the others, complexes with 1:1:2 ratios. The permissible levels of 15 other elements and anions for these detns, are tabulated.

IT 115-41-3D, transition metal complexes

(catechol violet and cetyltrimethylammonium ternary complexes, spectra of)

RN 115-41-3 HCAPLUS

CN 1,2-Benzenediol, 4,4'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis-(CA INDEX NAME)

IT 7440-05-3, analysis

(determination of, catechol violet and cetyltrimethylammonium in spectrophotometric)

RN 7440-05-3 HCAPLUS

CN Palladium (CA INDEX NAME)

Pd

IT 115-41-3

(in transition metal determination by spectrophotometry)

RN 115-41-3 HCAPLUS

CN 1,2-Benzenediol, 4,4'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis-(CA INDEX NAME)

IIT 7440-05-3D, catechol violet and cetyltrimethylammonium
 ternary complex
 (spectrum of)

RN 7440-05-3 HCAPLUS

CN Palladium (CA INDEX NAME)

CH THILIDIAN (CA INDEA NAME)

Pd

CC 79-6 (Inorganic Analytical Chemistry)
Section cross-reference(s): 73

IT 115-41-3D, transition metal complexes (catechol violet and cetyltrimethylammonium ternary complexes, spectra of)

IT 7439-89-6, analysis 7439-98-7, analysis 7440-05-3, analysis 7440-33-7, analysis 7440-50-8, analysis 7440-62-2, analysis 7440-69-9, analysis

(determination of, catechol violet and cetyltrimethylammonium in spectrophotometric)

IT 115-41-3 6899-10-1

(in transition metal determination by spectrophotometry)

IT 7439-89-6D, catechol violet and cetyltrimethylammonium ternary complex 7439-99-7D, catechol violet and cetyltrimethylammonium ternary complex 7440-05-3D, catechol violet and cetyltrimethylammonium ternary complex 7440-33-7D, catechol violet and cetyltrimethylammonium ternary complex 7440-50-8D, catechol violet and cetyltrimethylammonium ternary complex 7440-62-2D, catechol violet and cetyltrimethylammonium ternary complex 7440-69-9D, catechol violet and cetyltrimethylammonium ternary complex 740-69-9D, catechol violet and cetyltrimethylammonium ternary complex 740-69-9D, catechol violet and cetyltrimethylammonium ternary complex

(spectrum of) OS.CITING REF COUNT:

2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L49 ANSWER 21 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1983:83010 HCAPLUS Full-text DOCUMENT NUMBER: 98:83010

ORIGINAL REFERENCE NO.: 98:12513a,12516a

TITLE: Spectrophotometric determination of platinum

metals. VII. Determination of palladium with bromopyrogallol red and pyrocatechol violet

AUTHOR(S): Egermaierova, J.; Cermakova, L.; Suk, V.

CORPORATE SOURCE: Fac. Nat. Sci., Charles Univ., Prague, 128 40/2, Czech.

SOURCE: Microchemical Journal (1983), 28(1),

10-19

CODEN: MICJAN; ISSN: 0026-265X

Journal DOCUMENT TYPE: LANGUAGE: Enalish Entered STN: 12 May 1984

Optimum conditions were found for the reaction of Pd(II) with bromopyrogallol red (I) and pyrocatechol violet (II), and the effect of a cationic surfactant, Septonex, on these reactions was investigated. On this basis, new sensitive spectrophotometric detns. of Pd as its complexes with I and II alone or in the presence of Septonex, were developed and evaluated and the effect of other

ions was estimated 7440-05-3, analysis

> (determination of, bromopyrogallol red and pyrocatechol violet and Septonex in spectrophotometric)

RN 7440-05-3 HCAPLUS

Palladium (CA INDEX NAME) CN

Pd

- тт 115-41-3
- (in determination of palladium by spectrophotometry)
- 115-41-3 HCAPLUS RN

CN 1,2-Benzenediol, 4,4'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis-(CA INDEX NAME)

- 115-41-3D, palladium complexes, ion assocs. with Septonex 7440-05-3D, bromopyrogallol red and pyrocatechol violet complexes, ion assocs. with Septonex (spectra of)
- RN 115-41-3 HCAPLUS
- 1,2-Benzenediol, 4,4'-(1,1-dioxido-3H-2,1-benzoxathiol-3-vlidene)bis-(CA INDEX NAME)

7440-05-3 HCAPLUS DM

CN Palladium (CA INDEX NAME)

79-6 (Inorganic Analytical Chemistry)

тт 7440-05-3, analysis

> (determination of, bromopyrogallol red and pyrocatechol violet and Septonex in spectrophotometric)

115-41-3 10567-02-9 16574-43-9

(in determination of palladium by spectrophotometry)

115-41-3D, palladium complexes, ion assocs. with Septonex 7440-05-3D, bromopyrogallol red and pyrocatechol violet complexes, ion assocs. with Septonex 14565-92-5D, ion assocs. with palladium complexes with bromopyrogallol red and pyrocatechol violet

16574-43-9D, palladium complexes, ion assocs. with Septonex (spectra of)

THERE ARE 1 CAPLUS RECORDS THAT CITE THIS OS.CITING REF COUNT: 1 RECORD (1 CITINGS)

L49 ANSWER 22 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1983:82865 HCAPLUS Full-text

DOCUMENT NUMBER: 98:82865

ORIGINAL REFERENCE NO.: 98:12493a,12496a

TITLE: Spectrophotometric studies of the formation of complexes of some metals with Chromazurol S Tikhonov, V. N.

AUTHOR(S): SOURCE:

CORPORATE SOURCE: I. N. Ul'yanov Chuvash State Univ., Cheboksary,

Zhurnal Analiticheskoi Khimii (1982),

37(11), 1960-5

CODEN: ZAKHA8; ISSN: 0044-4502

DOCUMENT TYPE: Journal LANGUAGE: Russian ED Entered STN: 12 May 1984

The color reactions of Chromazurol S with Cu(II), Be, Ti(IV), Zr, V(IV), Fe(III), and Pd(II) were studied. The optimum pH of complexation (4.4-6.8), metal/ligand ratios (1:1 and 2:1), and spectral characteristics of the complexes ($\lambda max = 535-610$, $\epsilon = 1.40 + 104-6.46 + 104$) are given. The effect of acetates and acidity on the absorbance of the complexes was studied. The conditions for photometric detns. of the metals are discussed, e.g. the buffer types.

7440-05-3, analysis IT

(determination of, by spectrophotometry, Chromazurol S in)

RN 7440-05-3 HCAPLUS

CN Palladium (CA INDEX NAME)

Pd

IT 1667-99-8DP, metal complexes (formation and spectra of)

RN 1667-99-8 HCAPLUS

CN Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)(2,6-dichloro-3-sulfophenyl)methyl]-2-hydroxy-3-methyl-, sodium salt (1:3) (CA INDEX NAME)

3 Na

IT 7440-05-3DP, Chromazurol S complexes
(formation and spectrum of)

RN 7440-05-3 HCAPLUS

CN Palladium (CA INDEX NAME)

n.

CC 79-1 (Inorganic Analytical Chemistry) Section cross-reference(s): 68

IT 7439-89-6, analysis 7440-05-3, analysis 7440-32-6, analysis 7440-41-7, analysis 7440-50-8, analysis 7440-62-2, analysis 7440-67-7, analysis (determination of, by spectrophotometry, Chromazurol S in)

IT 1667-99-8DP, metal complexes

(formation and spectra of)

IT 7439-89-6DP, Chromazurol S complexes 7440-05-3DP,
Chromazurol S complexes 7440-41-7DP, Chromazurol S complexes 7440-41-7DP, Chromazurol S complexes 7440-67-7DP, Chromazurol S complexes 7440-67-7DP, Chromazurol S complexes 7440-67-7DP, Chromazurol S complexes 7440-67-7DP,

(formation and spectrum of)

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS

RECORD (2 CITINGS)

L49 ANSWER 23 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1982:228139 HCAPLUS Full-text DOCUMENT NUMBER: 96:228139 ORIGINAL REFERENCE NO.: 96:37577a,37580a Palladium ternary complex with Chrome Azurol S and TITLE: cetyltrimethylammonium bromide and cetylpyridinium bromide AUTHOR(S): Kant, Ravi; Srivastava, Rajesh; Prakash, Om CORPORATE SOURCE: Dep. Chem., Univ. Allahabad, Allahabad, India SOURCE: Croatica Chemica Acta (1981), 54(4), 465-72 CODEN: CCACAA; ISSN: 0011-1643 DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 12 May 1984 AB Formation of green ternary complexes of Pd with Chrome Azurol S (I) and cetyltrimethylammonium (CTA) bromide or cetylpyridinium (CP) bromide at pH 4.6-5.6 is described. The Pd-I-CTA or CP ratio in the complexes is 1:1:2 as established by Job's method of continuous variations and by the mol ratio method using absorbance data. Strict control of exptl. conditions is essential for employing these methods for the determination of composition The ternary systems obey Beer's law for 0.053-2.98 ppm Pd. A high molar absorptivity (Pd-I-CTA, 5.25 + 104; Pd-I-CP, 6.16 + 104 mol-1 cm-1) and Sandell sensitivity (0.002 µg cm2) were obtained at 620 nm. A spectrophotometric method is proposed using these ternary complexes for microdetn. of Pd. The method is sensitive, precise, and selective. The effect of various cations and anions was studied. The mode of formation and structures of the ternary complexes are discussed. 7440-05-3, analysis (determination of, Chrome Azurol S and cetyltrimethylammonium or cetylpyridinium bromide in spectrophotometric) 7440-05-3 HCAPLUS RN CN Palladium (CA INDEX NAME) Pd тт 1667-99-8 (in determination of palladium by spectrophotometry) 1667-99-8 HCAPLUS RN CN Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1ylidene)(2,6-dichloro-3-sulfophenyl)methyl]-2-hydroxy-3-methyl-, sodium salt (1:3) (CA INDEX NAME)



3 Na

CC 79-6 (Inorganic Analytical Chemistry)

7440-05-3, analysis

(determination of, Chrome Azurol S and cetyltrimethylammonium or cetylpyridinium bromide in spectrophotometric)

57-09-0 140-72-7 1667-99-8

(in determination of palladium by spectrophotometry)

L49 ANSWER 24 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN 1981:218950 HCAPLUS Full-text ACCESSION NUMBER:

DOCUMENT NUMBER: 94:218950

ORIGINAL REFERENCE NO.: 94:35675a,35678a

TITLE: Spectrophotometric study of ternary complexes of

some metals with Chromazurol S and

cetvltrimethylammonium

AUTHOR(S): Tikhonov, V. N.; Aleksandrova, N. P.

CORPORATE SOURCE: I. N. Ul'vanov Chuvash State Univ., Cheboksarv, USSR

SOURCE: Zhurnal Analiticheskoi Khimii (1981),

36(2), 242-7

CODEN: ZAKHA8: ISSN: 0044-4502

Journal

DOCUMENT TYPE: LANGUAGE: Russian

Entered STN: 12 May 1984

The formation of ternary complexes of Cu(II), Ti(IV), Zr(IV), V(V), Fe(III), AB Pd(II) with Chromazurol S (I) and cetyltrimethylammonium (II) was examined The M:I ratio in these compds. was 1:2. A 4-fold excess II is recommended for full color development. A spectrophotometric method was developed for Pd(II) determination in activation solns., which are actually a mixture of H2PdC14 and SnCl2. The effect of Sn is eliminated by the addition of NH4F. Optimum conditions exist at 0.05M NH4F, 0.05% I, 0.1% II, and pH 4.5. A 1000-fold excess Mg and Cd; 400-fold excess Tl(III); 100-fold excess Ca, Sr, Zn and Mn(II); 50-fold excess La and Pb; 10-fold excess Y, Sn(IV), Hg(II), Cr(III), Mo, Co, and Ni; and equal amts. of In and W do not interfere. Equal amts. of Cu, Be, Al, Ga, Sc, Sn(II), Ti(IV), Zr, Bi, V(IV), and Fe(III) interfere.

7440-05-3, analysis

(determination of, Chromazurol S and cetyltrimethylammonium in spectrophotometric)

RN 7440-05-3 HCAPLUS

Palladium (CA INDEX NAME)

Pd

IT 1667-99-8

(in determination of palladium by spectrophotometry)

RN 1667-99-8 HCAPLUS

CN Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)(2,6-dichloro-3-sulfophenyl)methyl]-2-hydroxy-3-methyl-, sodium salt (1:3) (CA INDEX NAME)

3 Na

IT 3564-17-8D, transition metal complexes

(spectra of)

RN 3564-17-8 HCAPLUS

CN Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)(2,6-dichloro-3-sulfophenyl)methyl]-2-hydroxy-3-methyl- (CA INDEX NAME)

IT 7440-05-3D, Chromazurol S complexes, ion associate with cetyltrimethylammonium

(spectrum of) RN 7440-05-3 HCAPLUS

CN Palladium (CA INDEX NAME)

Pd

CC 79-6 (Inorganic Analytical Chemistry)

IT 7440-05-3, analysis

(determination of, Chromazurol S and cetyltrimethylammonium in spectrophotometric)

IT 57-09-0 1667-99-8

(in determination of palladium by spectrophotometry) IT 3564-17-8D, transition metal complexes 6899-10-1D, ion

associate with transition metal complexes (spectra of)

IT 7439-89-6D, Chromazurol S complexes, ion associate with cetyltrimethylammonium 7440-05-3D, Chromazurol S complexes, ion associate with cetyltrimethylammonium 7440-32-6D, Chromazurol S complexes, ion associate with cetyltrimethylammonium

7440-50-8D, Chromazurol S complexes, ion associate with cetyltrimethylammonium 7440-62-2D, Chromazurol S complexes, ion associate with cetyltrimethylammonium 7440-67-7D, Chromazurol S

complexes, ion associate with cetyltrimethylammonium (spectrum of)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L49 ANSWER 25 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1979:432196 HCAPLUS Full-text

DOCUMENT NUMBER: 91:32196

ORIGINAL REFERENCE NO.: 91:5139a,5142a

TITLE: Pyrocatechol violet as a complexometric indicator

in the presence of cetyltrimethylammonium
AUTHOR(S): Tikhonov, V. N.; Stepanova, T. Ya.

CORPORATE SOURCE: Chuvash State Univ., Cheboksary, USSR SOURCE: Zhurnal Analiticheskoi Khimii (1979),

SOURCE: Znurnai Analiticneskoi Knimii (1979), 34(3), 426-31

CODEN: ZAKHA8; ISSN: 0044-4502 DOCUMENT TYPE: Journal

LANGUAGE: Russian ED Entered STN: 12 May 1984

AB Complex formation of 27 elements with pyrocatechol violet (I) in the presence and absence of cetyltrimethylammonium bromide (II) was studied. The use of the ternary complex involving I and II allows a more sensitive and contrasting complexometric titration than with I alone. Procedures were developed for the complexometric determination of Fe in ferromanganese, Cu in alloys, and Al in an antifriction alloy by using I and II mixts. as indicators.

IT 115-41-3

(complexometric indicator system containing cetyltrimethylammonium bromide and)

RN 115-41-3 HCAPLUS

CN 1,2-Benzenediol, 4,4'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis-(CA INDEX NAME)

7440-05-3, analysis

(determination of, cetyltrimethylammonium and pyrocatechol violet indicator system in complexometric)

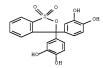
- RN 7440-05-3 HCAPLUS
- Palladium (CA INDEX NAME) CN

115-41-3D, metal complexes

(spectra of)

RN 115-41-3 HCAPLUS

1,2-Benzenediol, 4,4'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis-CN (CA INDEX NAME)



7440-05-3D, cetyltrimethylammonium and pyrocatechol violet complex

(spectrum of)

7440-05-3 HCAPLUS RN

Palladium (CA INDEX NAME) CN

CC 79-3 (Inorganic Analytical Chemistry)

115-41-3

(complexometric indicator system containing cetyltrimethylammonium bromide and)

IT 7440-05-3, analysis 7440-20-2, analysis 7440-55-3, analysis 7440-69-9, analysis 7440-74-6, analysis

(determination of, cetyltrimethylammonium and pyrocatechol violet indicator system in complexometric)

115-41-3D, metal complexes 6899-10-1D, metal complexes (spectra of)

7429-90-5D, cetyltrimethylammonium and pyrocatechol violet complex 7439-89-6D, cetyltrimethylammonium and pyrocatechol violet complex 7439-98-7D, cetyltrimethylammonium and pyrocatechol violet complex 7440-05-3D, cetyltrimethylammonium and pyrocatechol violet

complex 7440-20-2D, cetyltrimethylammonium and pyrocatechol violet complex 7440-32-6D, cetyltrimethylammonium and pyrocatechol violet

```
complex 7440-33-70, cetyltrimethylammonium and pyrocatechol violet complex 7440-55-8D, cetyltrimethylammonium and pyrocatechol violet complex 7440-55-3D, cetyltrimethylammonium and pyrocatechol violet complex 7440-62-2D, cetyltrimethylammonium and pyrocatechol violet complex 7440-67-7D, cetyltrimethylammonium and pyrocatechol violet complex 7440-69-9D, cetyltrimethylammonium and pyrocatechol violet complex 7440-74-6D, cetyltrimethylammonium and pyrocatechol violet complex
```

(spectrum of)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L49 ANSWER 26 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1979:158717 HCAPLUS Full-text 90:158717

DOCUMENT NUMBER: 90:158717 ORIGINAL REFERENCE NO.: 90:25117a,25120a

TITLE: Development of new extraction agents for

separation of rare radioactive elements
AUTHOR(S): Hala, J.; Navratil, O.; Prihoda, J.; Smo

AUTHOR(S): Hala, J.; Navratil, O.; Prihoda, J.; Smola, J. CORPORATE SOURCE: Prir. Fak., Univ. Jana Ev. Purkyne, Brno, Czech. SOURCE: Report (1977), CS-INIS-202, 60 pp.

Avail.: Prirodved. Fak., Univ. J. E. Purkyne,

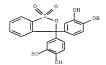
Brno, Czech

From: INIS Atomindex 1978, 9(24), Abstr. No. 416802

DOCUMENT TYPE: Report

LANGUAGE: Czech ED Entered STN: 12 May 1984

- AB Certain transition elements, such as Rh and Pd, may be recovered from waste solns. produced in spent fuel reprocessing. The extraction of Pd was studied by using S compds. of the sulfide and sulfoxide types, and the effects were investigated of the individual factors on Pd distribution between the aqueous and the organic phases. The possibility of separating Hf in the form of extractable complexes was tested on several systems. Studied in more detail were mainly the complexes of Hf with pyrocatechol violet, Xylenol Orange, and BuJPO4. The extraction of other metals, mainly of Sc, Eu, and In was investigated in detail in the system acid aqueous phase organophosphinic acids solution in benzene.
 - I 115-41-3
 - (extracting agent, for metal from radioactive waste)
- RN 115-41-3 HCAPLUS
- CN 1,2-Benzenediol, 4,4'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis-(CA INDEX NAME)



IT 7440-05-3DP, isotopes, preparation

(separation of, from radioactive waste solution by extraction)

```
7440-05-3 HCAPLUS
RN
```

CN Palladium (CA INDEX NAME)

```
71-6 (Nuclear Technology)
Section cross-reference(s): 61
          126-73-8, uses and miscellaneous
```

1611-35-4 (extracting agent, for metal from radioactive waste) 7440-05-3DP, isotopes, preparation 7440-16-6DP, isotopes,

preparation 7440-20-2DP, isotopes, preparation 7440-53-1DP, isotopes, preparation 7440-58-6DP, isotopes, preparation 7440-74-6DP, isotopes, preparation

(separation of, from radioactive waste solution by extraction)

L49 ANSWER 27 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1978:539801 HCAPLUS Full-text DOCUMENT NUMBER: 89:139801

ORIGINAL REFERENCE NO.: 89:21520h,21521a

TITLE:

Mixed-ligand complexes of some elements with pyrocatechol violet and cetylpyridinium chloride AUTHOR(S):

Chernova, R. K.; Kharlamova, L. N.; Belousova, V. V.; Kulapina, E. G.; Sumina, E. G.

CORPORATE SOURCE: Saratov State Univ., Saratov, USSR SOURCE: Zhurnal Analiticheskoi Khimii (1978),

33(5), 858-64

CODEN: ZAKHA8; ISSN: 0044-4502

DOCUMENT TYPE: Journal LANGUAGE: Russian

ED Entered STN: 12 May 1984

AB The formation of mixed-liqand complexes of 16 elements with pyrocatechol violet (I) and cetylpyridinium (II) was studied in acid and alkaline media in order to find optimum conditions of the anal, system and to clarify the nature of the interaction. For the model systems M-I-II, the stoichiometric ratio of the components in the mixed-ligand complex is 1:1:2 for M = W and Sn and 1:2:4 for M = Ti and Ge. The formation of an ionic associate takes place as a result of the interaction of a pos. charged N atom of II with the neg. charged I groups (the sulfogroup and ionized hydroxy groups). Optimum pH for the formation of the I-II associate is 7.5. The instability constant for the 1:2 I-II ion associate was calculated New spectrophotometric procedures for the determination of Sn and Ti were developed. At pH 2.0, 400-fold excess Ni(II), Co(II), and Cu(II), 200-fold Cr(III), PO43-, F-, and sulfosalicylate, 100-fold Zn(II) and Mn(II), 50-fold oxalate, and 5-fold V(V), do not interfere in the Sn determination; W(VI), Fe(III), Mo(VI), Ti(IV), Ge(IV), Mn(VII), and Cr(VI) interfere. Beer's law is obeyed for $10-98~\mu g~Sn/25~mL$. In the determination of Ti optimum conditions exist in a 0.005M H2SO4 medium at a 5-fold excess of II with regard to I. Beer's law is obeyed for 5.0-25.0 µg Ti/mL. Co(II), 200fold; Al(III), and Zn(II) 100-fold; F-, tartrate, oxalate, and PO43-50-fold; and Cu(II) 30-fold excess do not interfere. Equimolar Fe(III) and any concentration of Mo and W interfere.

TT 115-41-3

⁽in determination of tin and titanium by spectrophotometry)

RN 115-41-3 HCAPLUS

^{1,2-}Benzenediol, 4,4'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis-(CA INDEX NAME)

IT 115-41-3D, metal complexes

(spectra of)

RN 115-41-3 HCAPLUS

CN 1,2-Benzenediol, 4,4'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis-(CA INDEX NAME)

IT 7440-05-3D, cetylpyridinium and pyrocatechol violet complex (spectrum of)

RN 7440-05-3 HCAPLUS

CN Palladium (CA INDEX NAME)

79-6 (Inorganic Analytical Chemistry)

DA

IT 115-41-3 123-03-5 (in determination of tin and titanium by spectrophotometry) TТ 115-41-3D, metal complexes 7773-52-6D, metal complexes (spectra of) ΙT 7429-90-5D, cetylpyridinium and pyrocatechol violet complex 7439-98-7D, cetylpyridinium and pyrocatechol violet complex 7440-05-3D, cetylpyridinium and pyrocatechol violet complex 7440-31-5D, cetylpyridinium and pyrocatechol violet complex 7440-32-6D, cetylpyridinium and pyrocatechol violet complex 7440-33-7D, cetylpyridinium and pyrocatechol violet complex 7440-41-7D, cetylpyridinium and pyrocatechol violet complex 7440-43-9D, cetylpyridinium and pyrocatechol violet complex 7440-48-4D, cetylpyridinium and pyrocatechol violet complex 7440-50-8D, cetylpyridinium and pyrocatechol violet complex

10/530.790 7440-56-4D, cetylpyridinium and pyrocatechol violet complex 7440-66-6D, cetylpyridinium and pyrocatechol violet complex 7440-67-7D, cetylpyridinium and pyrocatechol violet complex 7440-69-9D, cetylpyridinium and pyrocatechol violet complex (spectrum of) OS.CITING REF COUNT: THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS) L49 ANSWER 28 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1977:25562 HCAPLUS Full-text DOCUMENT NUMBER: 86:25562 ORIGINAL REFERENCE NO.: 86:4013a,4016a TITLE: A highly sensitive spectrophotometric determination of palladium with Chromal Blue G and cetyltrimethylammonium chloride AUTHOR(S): Uesugi, K.; Shigematsu, T. CORPORATE SOURCE: Lab. Chem., Himeji Inst. Technol., Himeji, Japan Analytica Chimica Acta (1976), 84(2), SOURCE: 377-82 CODEN: ACACAM: ISSN: 0003-2670 DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 12 May 1984 AB A new spectrophotometric method for the determination of palladium with Chromal Blue G (Color Index 43835) and cetyltrimethylammonium chloride is described. The sensitivity of the color reaction between Pd and Chromal Blue G is greatly increased in the presence of cetyltrimethylammonium chloride. The Pd complex has maximal absorbance at pH 3.2-3.8 and at 670 nm. Beer's law is obeyed at 0.08-1.4 ppm Pd; the molar absorptivity is 1.01 + 105 mole-1 cm-1 at 670 nm and the sensitivity is 1 + 10-3 ug Pd cm-2. The mole ratio of Pd and Chromal Blue G in the complex in the presence of cetyltrimethylammonium chloride is 1:3. Only Sc interferes when NaF is used as masking agent.

IT 7440-05-3, analysis

(determination of, Chromal Blue G and cetyltrimethylammonium chloride in spectrophotometric)

RN 7440-05-3 HCAPLUS

CN Palladium (CA INDEX NAME)

Рđ

IT 10143-02-9

(in determination of palladium by spectrophotometry, increase sensitivity in solns. containing cetyltrimethylammonium chloride)

RN 10143-02-9 HCAPLUS

CN Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)(2-chloro-4-nbirophenyl)methyl)-2-hydroxy-3-methyl-, sodium salt (1:2) (CA INDEX NAME)

$$\stackrel{\text{NO}}{\longrightarrow} \stackrel{\text{NO}}{\longrightarrow} \stackrel{\text{$$

2 Na

IT 7440-05-3D, Chromal Blue G complex 30635-96-2D,
 palladium complex
 (spectrum of, in solns. containing cetyltrimethylammonium chloride)

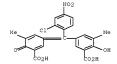
RN 7440-05-3 HCAPLUS

CN Palladium (CA INDEX NAME)

D.A

RN 30635-96-2 HCAPLUS

CN Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)(2-chloro-4-nitrophenyl)methyl]-2-hydroxy-3-methyl- (CA INDEX NAME)



- CC 79-6 (Inorganic Analytical Chemistry)
- IT 7440-05-3, analysis

(determination of, Chromal Blue G and cetyltrimethylammonium chloride in spectrophotometric)

IT 10143-02-9

(in determination of palladium by spectrophotometry, increase sensitivity in solns. containing cetyltrimethylammonium chloride)

IT 7440-05-3D, Chromal Blue G complex 39635-96-2D, palladium complex

(spectrum of, in solns. containing cetyltrimethylammonium chloride)

L49 ANSWER 29 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1973:413183 HCAPLUS Full-text DOCUMENT NUMBER: 79:13183

ORIGINAL REFERENCE NO.: 79:2085a,2088a

TITLE: Spectrophotometric determination of palladium with

eriochrome cvanine R

AUTHOR(S): Shigematsu, Tsunenobu; Matsui, Masakazu; Uesugi,

Katsuva

CORPORATE SOURCE: Inst. Chem. Res., Kyoto Univ., Uji, Japan

SOURCE: Bulletin of the Institute for Chemical Research,

Kyoto University (1972), 50(6), 634-44

CODEN: BICRAS: ISSN: 0023-6071

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

Pd was determined spectrophotometrically at 620 nm (molar absorptivity was 9.9 + 104) after complexation with Erichrome Cyanine R in the presence of tetradecyldimethylbenzylammonium chloride at pH 4.0-5.6. Beer's law was

followed for 0.1-1.2 ppm Pd, and the sensitivity was $0.0011~\mu g$ Pd/cm2. Interference by Cu(II) and Fe(III) in amts. >150 ug cannot be eliminated with

F- masking agent. In the presence and absence of I, the complex had a 1:3 and 1:2 metal-ligand ratio, resp. In the absence of I, absorbance was measured at 605 nm (molar absorptivity was 6.8 + 104), and the sensitivity was 1.6 + 10-3μq Pd/cm2. Eriochrome Cyanine R gave a more sensitive method for Pd

determination than other triphenvlmethane dves.

7440-05-3, analysis

(determination of, eriochrome cyanine R in spectrophotometric)

7440-05-3 HCAPLUS RN

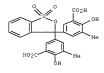
CN Palladium (CA INDEX NAME)

3564-18-9

(in determination of palladium, spectrophotometric)

RN 3564-18-9 HCAPLUS

Benzoic acid, 3,3'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis[6-CN hydroxy-5-methyl-, sodium salt (1:3) (CA INDEX NAME)



3 Na

1796-92-5D, Benzoic acid,

5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)(2,6dichlorophenyl)methyl]-2-hydroxy-3-methyl-, disodium salt, palladium complex 3267-40-1D, Benzoic acid,

5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)(2,3,6-trichlorophenyl)methyl]-2-hydroxy-3-methyl-, disodium salt, palladium complex 3564-17-8B, Benzoic acid,

5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)(2,6-dichloro-3-sulfophenyl)methyl]-2-hydroxy-3-methyl-, palladium complex 7452-52-0D, Benzoic acid,

5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)[2-chloro-4-(diethylamino)phenyl]methyl]-2-hydroxy-3-methyl-, palladium complex 10143-02-90, Benzoic acid,

5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)(2-chloro-4-nitrophenyl)methyl)-2-hydroxy-3-methyl-, disodium salt, palladium complex

(spectrum of)

RN 1796-92-5 HCAPLUS

CN Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)(2,6-dichlorophenyl)methyl]-2-hydroxy-3-methyl-, sodium salt (1:2) (CA INDEX NAME)

2 Na

RN 3267-40-1 HCAPLUS

CN Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)(2,3,6-trichlorophenyl)methyl]-2-hydroxy-3-methyl-, sodium salt (1:2) (CA INDEX NAME)

$$\begin{array}{c} \text{Me} & \overset{\circ}{\bigcirc} & \text{CO}_{2H} \\ \text{Me} & & \text{C1} \\ \text{HO} & & \text{C1} \\ \text{C0}_{2H} & & \text{C1} \\ \end{array}$$

2 Na

- RN 3564-17-8 HCAPLUS
- CN Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)(2,6-dichloro-3-sulfophenyl)methyl]-2-hydroxy-3-methyl- (CA INDEX NAME)

RN 7452-52-0 HCAPLUS

CN Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene) [2-chloro-4-(diethylamino)phenyl]methyl]-2-hydroxy-3-methyl-(CA INDEX NAME)

RN 10143-02-9 HCAPLUS

CN Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)(2-chloro-4-nitrophenyl)methyl]-2-hydroxy-3-methyl-, sodium salt (1:2) (CA INDEX NAME)

2 Na

- CC 79-6 (Inorganic Analytical Chemistry)
- IT 7440-05-3, analysis
 - (determination of, eriochrome cyanine R in spectrophotometric)
- IT 139-08-2 3564-18-9
- (in determination of palladium, spectrophotometric)
- IT 1796-92-5D, Benzoic acid,

```
5-1(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)(2,6-
     dichlorophenyl)methyl]-2-hydroxy-3-methyl-, disodium salt, palladium
              3267-40-1D, Benzoic acid,
     5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)(2,3,6-
     trichlorophenyl)methyl]-2-hydroxy-3-methyl-, disodium salt, palladium
     complex 3564-17-8D, Benzoic acid,
     5-[(3-carboxy-5-methy1-4-oxo-2,5-cyclohexadien-1-ylidene)(2,6-dichloro-
     3-sulfophenyl)methyl]-2-hydroxy-3-methyl-, palladium complex
     7452-52-0D. Benzoic acid.
     5-|(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)[2-chloro-4-
     (diethylamino)phenyl]methyl]-2-hydroxy-3-methyl-, palladium complex
     10143-02-9D, Benzoic acid,
     5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)(2-chloro-4-
     nitrophenyl)methyl]-2-hydroxy-3-methyl-, disodium salt, palladium
     complex
        (spectrum of)
L49 ANSWER 30 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER:
                          1972:456074 HCAPLUS Full-text
DOCUMENT NUMBER:
                          77:56074
ORIGINAL REFERENCE NO.: 77:9223a,9226a
TITLE:
                          Spectrophotometric determination of palladium with
                          Pontachrome Azure Blue B
AUTHOR(S):
                          Uesugi, Katsuva; Shigematsu, Tsunenobu; Tabushi,
                          Masavuki
CORPORATE SOURCE:
                          Lab. Chem., Himeji Inst. Technol., Himeji, Japan
SOURCE:
                          Analytica Chimica Acta (1972), 60(1),
                          79-86
                          CODEN: ACACAM: ISSN: 0003-2670
DOCUMENT TYPE:
                          Journal
LANGUAGE:
                          English
ED
   Entered STN: 12 May 1984
     A new spectrophotometric method for the determination of palladium with
     Pontachrome Azure Blue B (Color Index 43830) as reagent is described. The Pd
     complex has maximum absorbance at pH 5.2-5.7 and at 605 nm. Beer's law is
     obeyed up to at least 2.5 ppm Pd; the molar absorptivity is 4.79 + 104 1.
     mole-1 cm-1 and the sensitivity is 2.2 + 10-3 ug Pd cm-2. The mole ratio of
     Pd and reagent in the complex is 1:2. The formation constant of the complex is 5.0\,+\,1010 under these conditions. Only Cu(II) and Fe(III) interfere with
     the determination of Pd when NaF is used as a masking agent.
    7440-05-3, analysis
        (determination of, Pontachrome Azure Blue B in)
     7440-05-3 HCAPLUS
     Palladium (CA INDEX NAME)
     15012-28-9
```

RN

AB

RN

CN

Pd

(in determination of palladium)

15012-28-9 HCAPLUS

Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-CN ylidene)(2,6-dichlorophenyl)methyl]-2-hydroxy-3-methyl- (CA INDEX NAME)

IT 1796-92-5D, Benzoic acid,

5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)(2,6dichlorophenyl)methyl]-2-hydroxy-3-methyl-, disodium salt, palladium complexes

(spectra of)

RN 1796-92-5 HCAPLUS

CN Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)(2,6-dichlorophenyl)methyl]-2-hydroxy-3-methyl-, sodium salt (1:2) (CA INDEX NAME)

2 Na

CC 79-6 (Inorganic Analytical Chemistry)

IT 7440-05-3, analysis

(determination of, Pontachrome Azure Blue B in)

IT 15012-28-9

(in determination of palladium)

IT 1796-92-5D, Benzoic acid,

5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)(2,6-dichlorophenyl)methyl]-2-hydroxy-3-methyl-, disodium salt, palladium complexes

(spectra of)

L49 ANSWER 31 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1964:451207 HCAPLUS Fuil-text

DOCUMENT NUMBER: 61:51207

ORIGINAL REFERENCE NO.: 61:8890g-h

TITLE: Absorptimetric study of ammonium aurintricarboxylate as a reagent for palladium(II)

AUTHOR(S): Munshi, Kailash N.; Dey, Arun K.

CORPORATE SOURCE: Univ. Allahabad, India

SOURCE: Talanta (1964), 11(8), 1265-8

CODEN: TLNTA2; ISSN: 0039-9140

DOCUMENT TYPE: Journal LANGUAGE: English

- ED Entered STN: 22 Apr 2001
- AB A colorimetric method for the determination of Pd(II) with NH4 aurintricarboxylate (aluminon) is described. The method involves the formation of a violet chelate of Pd-aluminon at pH 4.0. The color reaction has a sensitivity of 0.026 y/cm.2 for log IO/I = 0.001, and obeys Beer's law over the range of 0.14-7.7 p.p.m. of Pd. The effects of pH, time, order of addition of the reagents, temperature, and diverse ions were investigated, and a procedure for the microdetn. of Pd was described. The composition of the complex was confirmed by 3 different methods as 1:2 (metal:reagent), and the equilibrium of 109.8 was found by the method of D., et al. (Mukherji and D., Ca 52, 18066c; 53, 213'88e), at pH 4.0, 25°, and ionic strength 0.1M.
- RN 7440-05-3 HCAPLUS
- CN Palladium (CA INDEX NAME)

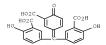
Pd

- IT 569-58-4, 1,4-Cyclohexadiene-1-carboxylic acid, 3-[bis(3-carboxy-4-hydroxyphenyl)methylene]-6-oxo-, triammonium salt (in Pd determination)
- RN 569-58-4 HCAPLUS
- CN Benzoic acid, 3,3'-[(3-carboxy-4-oxo-2,5-cyclohexadien-1-ylidene)methylene]bis[6-hydroxy-, ammonium salt (1:3) (CA INDEX NAME)



3 NH3

- IT 4431-00-9, 1,4-Cyclohexadiene-1-carboxylic acid,
 3-[bis(3-carboxy-4-hydroxyphenyl)methylene]-6-oxo-, palladium complex
 (ionization and spectrum of)
- RN 4431-00-9 HCAPLUS
- CN Benzoic acid, 3,3'-[(3-carboxy-4-oxo-2,5-cyclohexadien-1ylidene)methylene]bis[6-hydroxy- (CA INDEX NAME)



CC 2 (Analytical Chemistry)

IT 7440-05-3, Palladium

(analysis, determination, NH4 aurintricarboxylate in)

II 569-58-4, 1,4-Cyclohexadiene-1-carboxylic acid,

3-[bis(3-carboxy-4-hydroxypheny1)methylene]-6-oxo-, triammonium salt
 (in Pd determination)

4431-00-3, 1,4-Cyclohexadiene-1-carboxylic acid,

3-[bis(3-carboxy-4-hydroxyphenyl)methylene]-6-oxo-, palladium complex
 (ionization and spectrum of)

L49 ANSWER 32 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1964:86382 HCAPLUS $\underline{\text{Full-text}}$

DOCUMENT NUMBER: 60:86382
ORIGINAL REFERENCE NO.: 60:15119f-h

TITLE: Photometric investigation of precipitation

titrations AUTHOR(S): St. Blakel

AUTHOR(S): St. Blakeley, J. H.; Ryan, D. E. CORPORATE SOURCE: Dalhousie Univ., Halifax, Can. SOURCE: Analytica Chimica Acta (1964), 30(4), 346-52

CODEN: ACACAM; ISSN: 0003-2670

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 22 Apr 2001

Precipitation titrations were studied photometrically with >50 precipitants (SO4--, Cl-, Br-, I-, CO3--, C2O4--, PO43-, 8-quinolinol, NH4 aurintricarboxylate, phytic acid, BzN(Ph)OH, o-phenanthroline (I)) in a concentration range of 10-2-10-4M, by means of a turbidimeter (horizontal light absorbance) or a heterometer (vertical absorbance) (Bobtelsky and Bar-Gadda, CA 47, 6300b). The automatically-recorded steady-state absorbance values of a stirred precipitate or suspension were plotted vs. volume of the titrant added; the end point is the intersection of the absorbance-volume curve with the maximum absorbance line. The shapes of titration curves obtained by the turbidimetric and heterometric methods were approx. the same. A smooth curve was obtained for the titration of Pd++ with I, with the end point at a Pd++/I mole ratio of 1:1. I- + Cl- are titrated quant. with Hg2++, but an intermediate break equivalent to I- was not obtained. Ba++ + Sr++ are titrated quant. by SO4-- without an intermediate break for Ba++. F- + C2O4-are titrated quant. by Ca++, but a break occurs before the F- end point. The titration of 8-quinolinol with Al3+ was not stoichiometric owing to complex formation. No intermediate breaks in the titration curves were found where stepwise formation was possible. The error by either method is ≤1%. Changes in the phys. form of the precipitate can increase the error to 5%.

4431--00--9

(Derived from data in the 7th Collective Formula Index (1962-1966))

RN 4431-00-9 HCAPLUS

CN Benzoic acid, 3,3'-[(3-carboxy-4-oxo-2,5-cyclohexadien-1-ylidene)methylene]bis[6-hydroxy- (CA INDEX NAME)

```
7440-05-3, Palladium
        (analysis, determination, precipitation titrimetric)
RN
     7440-05-3 HCAPLUS
CN
    Palladium (CA INDEX NAME)
     569-58-4, 1,4-Cyclohexadiene-1-carboxylic acid,
     3-[bis(3-carboxy-4-hydroxyphenyl)methylene]-6-oxo-, triammonium salt
        (in precipitation titrations)
     569-58-4 HCAPLUS
RN
CN
     Benzoic acid, 3,3'-[(3-carboxy-4-oxo-2,5-cyclohexadien-1-
     ylidene)methylene]bis[6-hydroxy-, ammonium salt (1:3) (CA INDEX NAME)
         ■3 NH3
     7440-05-3, Palladium
        (titration of, by 1,10-phenanthroline)
RN
     7440-05-3 HCAPLUS
     Palladium (CA INDEX NAME)
Pd
CC
     2 (Analytical Chemistry)
тт
     4431-00-9
        (Derived from data in the 7th Collective Formula Index (1962-1966))
     7440-05-3, Palladium
        (analysis, determination, precipitation titrimetric)
     569-58-4, 1,4-Cvclohexadiene-1-carboxvlic acid,
     3-[bis(3-carboxy-4-hydroxyphenyl)methylene]-6-oxo-, triammonium salt
        (in precipitation titrations)
     7440-05-3, Palladium
        (titration of, by 1,10-phenanthroline)
L49 ANSWER 33 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN
```

ACCESSION NUMBER:

DOCUMENT NUMBER: 60:27073

ORIGINAL REFERENCE NO.: 60:4789c-e

Spectrophotometric determination of palladium with TITLE:

2-mercaptobenzoxazole

Arita, Takaichi; Yoe, John H. AUTHOR(S):

CORPORATE SOURCE: Univ. of Virginia, Charlottesville Analytica Chimica Acta (1963), 29(6), SOURCE:

500 - 4

CODEN: ACACAM: ISSN: 0003-2670

DOCUMENT TYPE: Journal

LANGUAGE: English

Entered STN: 22 Apr 2001 ED

AB One ml. of a solution containing 100-300 p.p.m. Pd is transferred into a 10ml. volumetric flask and diluted with 3 ml. each of dioxane and cyclohexanone. After mixing, 2 ml. of a freshly prepared solution (0.15%) of 2mercaptobenzoxazole (I) in 1:1 dioxane-water is added. The solution is made up to volume with dioxane and the mixture allowed to stand for about 20 min. The absorbance at 375 mm of the yellow Pd complex with I is measured against the reagent solution as a blank. The amount of Pd is obtained from a

reference curve. The color reaction has a sensitivity of 0.08 γ of Pd/cm.2 for logIO/I = 0.001 and obeys Beer's law at 2-40 p.p.m. Pd. The Pd complex with I is formed instantaneously and over a wide pH range. The tolerances of interfering ions such as Fe, Cu, Au, Os in the presence of 20 p.p.m. Pd are listed. Results of the spectroscopic method for the determination of 21.3 p.p.m. Pd in the presence of other elements are shown. The standard deviation

was ±0.88%. ΙT 7440-05-3, Palladium

(analysis, determination, 2-benzoxazolethiol in)

RN 7440-05-3 HCAPLUS

CN Palladium (CA INDEX NAME)

1667-99-8, C.I. Mordant Blue 29 (in palladium determination)

RN 1667-99-8 HCAPLUS

Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-CN ylidene)(2,6-dichloro-3-sulfophenyl)methyl]-2-hydroxy-3-methyl-, sodium salt (1:3) (CA INDEX NAME)



3 Na

2 (Analytical Chemistry)

TT 7440-05-3, Palladium

(analysis, determination, 2-benzoxazolethiol in) 1667-99-8, C.I. Mordant Blue 29 2382-96-9,

2-Benzoxazolethiol

(in palladium determination)

L49 ANSWER 34 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1963:69761 HCAPLUS Full-text

DOCUMENT NUMBER: 58:69761

ORIGINAL REFERENCE NO.: 58:11939f-h,11940a

TITLE: Systematic analysis of zirconium after neutron

irradiation AUTHOR(S): Fournet, Louis

CORPORATE SOURCE: Centre Etudes Chim., Metallurgique,

Vitry-sur-Seine, Fr.

SOURCE . Ann. Chim. (Paris) (1962), 7, 763-84

DOCUMENT TYPE: Journal LANGUAGE: Unavailable

Entered STN: 22 Apr 2001 AB

Hf-free Zr purified by the Kroll process plus arc-melting and by the Van Arkel process was analyzed for 48 impurities, including 13 lanthanides, by neutron activation. A thin-end-window GeigerMueller tube (β-rays) and γ-ray scintillation spectrometer with a magnetic memory unit were used. Most of the elements are determined in a 1-g. Zr sample irradiated 1 week in a 1-1.4 + 1012 neutron/sq. cm./sec. flux. The irradiated Zr is treated with Cl gas, dissolved in 4N HCl, then divided in 3 portions. In the first, after sepns., Se (Se75, γ -rays at 136 and 265 k.e.v.) and part of the Au (γ -rays at 411 k.e.v.), Hg, As, Sb, W, Te (I132), Pb, Au, Cu, Mo (Mo99 can be from U), and Bi are determined In the second portion, after sepns., T1204 Fe59, Ga72, In (Inl15m if no Cd), Th (Pa233), Sc, Cr, Ni, Co, Cd (Cd115 or Inl15m), Mn, Zn (Zn69m or Zn65), Na, K (K42 at 1.52 m.e.v.), Rb (Rb86, γ-rays at 1.08 m.e.v. after K decay), Cs (Cs134 at 605 and 796 k.e.v.), lanthanides (more Np239 than lanthanides are found), Ca, Sr, and Ba (Bal40 can be from U) are determined In the third portion, Hf, Zr, Nb, and Ta are determined On a sep. sample after a y,n reaction (30 min. at 6 + 1012 neutrons/sq. cm./sec.), Br, Cl, and I are determined On another sample after Y.n reaction, F is determined as BaSiF6 and N as NH4OH. On another sample after precipitation of Zr mandelate, the hydroxides of Al and V and the 8-quinolinolates of Mg and Ti are irradiated for 10-20 sec. and 1-2 min., resp., at a flux of 6 + 1012 neutrons/sq. cm./sec. and counted immediately. The results are corrected for the fission products and efficiency of extns. and pptns. The limits of determination and details of chemical separation are given.

7440-05-3, Palladium

(analysis, determination in Zr)

7440-05-3 HCAPLUS RN

CN Palladium (CA INDEX NAME)

115-41-3, o-Toluenesulfonic acid, α , α -bis (3, 4-dihydroxyphenyl) - α -hydroxy-, y-sultone

(in Y determination)

RN 115-41-3 HCAPLUS

CN 1,2-Benzenedio1, 4,4'-(1,1-dioxido-3H-2,1-benzoxathio1-3-ylidene)bis-(CA INDEX NAME)

CC 2 (Analytical Chemistry)

7429-90-5, Aluminum 7439-89-6, Iron 7439-96-5, Manganese 7439-97-6, Mercury 7439-98-7, Molybdenum 7440-02-0, Nickel 7440-03-1, Niobium 7440-05-3, Palladium 7440-09-7, Potassium 7440-17-7, Rubidium 7440-20-2, Scandium Silver 7440-23-5, Sodium 7440-24-6, Strontium 7440-25-7, Tantalum 7440-28-0, Thallium 7440-29-1, Thorium 7440-32-6, 7440-33-7, Tungsten 7440-36-0, Antimony Titanium 7440-38-2. Arsenic 7440-43-9, Cadmium 7440-46-2, Cesium 7440-47-3, Chromium 7440-48-4, Cobalt 7440-50-8, Copper 7440-55-3, Gallium 7440-57-5, Gold 7440-58-6, Hafnium 7440-61-1, Uranium 7440-62-2, Vanadium 7440-65-5, Yttrium 7440-66-6, Zinc 7440-70-2, Calcium 7440-74-6, Indium 7553-56-2, Iodine 7726-95-6, Bromine 7727-37-9, Nitrogen 7782-41-4, Fluorine 7782-50-5, Chlorine (analysis, determination in Zr)

IT 115-41-3, o-Toluenesulfonic acid, α,α-bis(3,4-dihydroxyphenyl)-α-hydroxy-,

γ-sultone

(in Y determination)

L49 ANSWER 35 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1960:108832 HCAPLUS Full-text

DOCUMENT NUMBER: 54:108832

ORIGINAL REFERENCE NO.: 54:20634h-i,20635a

TITLE: Spectrophotometric determination of palladium with

nioxime and benzildioxime

AUTHOR(S): Pshenitsyn, N. K.; Ivonina, O. M. SOURCE: Zavodskaya Laboratoriya (1958), 24,

1185-9

CODEN: ZVDLAU; ISSN: 0321-4265

DOCUMENT TYPE: Journal

ED Entered STN: 22 Apr 2001

AB The ability of Pd oximes to dissolve in organic solvents was utilized by Peshkovoi and Shlenskaya (CA 49, 4448c) to develop a colorimetric method to determine small amts. of Pd. A table of dioximes and oximes suitable for spectrophotometric determination of Pd is given. To determine Pd in PdCl2, the solution is adjusted to pH 1 when ni oxime (I) is used and pH 2 when α-benzil dioxime (II) is the reagent, with an acetate buffer. To form the oxime, 1 ml. 0.08% aqueous solution of I or 2.5 ml. of 0.02% alo. II is added, and the solution allowed to stand for 10-15 min. and 1 hr., resp. The complex

salt of Pd is extracted with CHCl3, and the optical d. measured at 280 m μ for I and 323-5 m μ for II.

IT 7440-05-3, Palladium

(analysis, determination, benzildioxime and nioxime in)

RN 7440-05-3 HCAPLUS

CN Palladium (CA INDEX NAME)

Pd

IT 1667-99-8, Alberon 3564-17-8, 2,3-Cresotic acid,

 $5-[\alpha-(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)-2,6-dichloro-3-sulfobenzyl]-$

(in aluminum determination, and spectrum of its Al complex)

RN 1667-99-8 HCAPLUS

CN Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)(2,6-dichloro-3-sulfophenyl)methyl)-2-hydroxy-3-methyl-, sodium salt (1:3) (CA INDEX NAME)

3 Na

RN 3564-17-8 HCAPLUS

CN Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)(2,6-dichloro-3-sulfophenyl)methyl]-2-hydroxy-3-methyl- (CA INDEX NAME)

```
7647-10-1 HCAPLUS
DM
CN
   Palladium chloride (PdC12) (CA INDEX NAME)
C1-Pd-C1
CC
    7 (Analytical Chemistry)
    7440-05-3, Palladium
ΙT
        (analysis, determination, benzildioxime and nioxime in)
ΤТ
    1667-99-8, Alberon 3564-17-8, 2,3-Cresotic acid,
    5-[α-(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)-2,6-
    dichloro-3-sulfobenzyl]-
        (in aluminum determination, and spectrum of its Al complex)
    7647-10-1, Palladium chloride, PdC12
       (palladium determination in)
                              THERE ARE 1 CAPLUS RECORDS THAT CITE THIS
OS.CITING REF COUNT:
                       1
                              RECORD (1 CITINGS)
L49 ANSWER 36 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER:
                        1956:56324 HCAPLUS Full-text
DOCUMENT NUMBER:
                        50:56324
ORIGINAL REFERENCE NO.: 50:10595d
TITLE:
                        Pyrocatechol Violet: indicator for chelatometric
                        titrations
AUTHOR(S):
                        Suk, V.; Malat, M.
CORPORATE SOURCE:
                        Charles Univ., Prague
SOURCE:
                        Chemist-Analyst (1956), 45, 30-7
                        CODEN: CHANAA; ISSN: 0095-8484
DOCUMENT TYPE:
                        Journal
LANGUAGE:
                        Unavailable
ED
   Entered STN: 22 Apr 2001
AB
   Five possible formulas are discussed, and detailed directions are given for
     determining Bi, Th, In, Ga, Fe, Ir, Th, Cu, Al, Ti, Ni, Co, Pd, Mn, Zn, Mg,
     and Cd. A highly specific procedure for detecting Zr is pointed out. 37
    references.
    7440-05-3, Palladium
       (analysis, determination)
    7440-05-3 HCAPLUS
RN
CN
    Palladium (CA INDEX NAME)
    115-41-3, Pyrocatechol Violet
        (as indicator in chelatometry)
    115-41-3 HCAPLUS
CN
    1,2-Benzenediol, 4,4'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis-
    (CA INDEX NAME)
```

CC 7 (Analytical Chemistry)

TT 7429-90-5, Aluminum 7439-89-6, Iron 7439-92-1, Lead 7439-95-4, Magnesium 7439-96-5, Manganese 7440-05-3, Palladium 7440-29-1, Thorium 7440-32-6, Titanium 7440-43-9, Cadmium 7440-48-4, Cobalt 7440-50-8, Copper 7440-55-3, Gallium 7440-66-6, Zinc 7440-69-9, Bismuth 7440-74-6, Indium (analysis, determination)

IT 115-41-3, Pyrocatechol Violet

(as indicator in chelatometry)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

```
=> d que 147
L2
             8 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON (115-41-3/BI OR
               1667-99-8/BI OR 1796-92-5/BI OR 3564-18-9/BI OR 7440-05-3/B
               I OR 7440-50-8/BI OR 7647-10-1/BI OR 7758-98-7/BI)
             1 SEA FILE-REGISTRY SPE-ON ABB-ON PLU-ON "CHROME AZUROL
L3
               S"/CN
L4
             1 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON "CHROME AZUROL
               B"/CN
L6
             1 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON "ERIOCHROME
               CYANINE R"/CN
             1 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON "PYROCATECHOL
               VIOLET"/CN
L10
               STR
```

NODE ATTRIBUTES: NSPEC IS RC

NSPEC IS RC AT 7 NSPEC IS RC AT 21 DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 21

HOLLDER	OI MODEL							
STEREO ATTRIBUTES: NONE								
L14		SCR	1139					
L16	931	SEA	FILE=REGISTR	SSS FU	L L10 ANI	L14		
L17	2	SEA	FILE=REGISTR	Y SPE=ON	ABB=ON	PLU=ON	L16 AND L2	
L19	2	SEA	FILE=REGISTR	Y SPE=ON	ABB=ON	PLU=ON	L2 AND PD/ELS	
L22	124082	SEA	FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L19	
L23	1090	SEA	FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L17	
L24	19	SEA	FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L22 AND L23	
L28	2280	SEA	FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L3 OR L4 OR L6 OR	
		L7						
L29	39	SEA	FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L28 AND L22	
L30	32	SEA	FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L29 AND ANST/RL	
L31	31	SEA	FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L30 AND (1840-2003	
)/P	RY, AY, PY					
1.33		STR						

VAR G1=29/25/26/22/23 VPA 30-2/3/5/6 U VPA 31-9/10/12/13 U NODE ATTRIBUTES:

G1 @30 G1 @31

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 31

O ATTRIBUTES: NONE							
167	SEA	FILE=REGISTR	Y SUB=L1	6 SSS FUI	L L33		
3081	SEA	FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L35	
37	SEA	FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L36 AND L22	
36	SEA	FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L37 AND (1840-2003	
)/PRY,AY,PY						
1	SEA	FILE=REGISTR	Y SPE=ON	ABB=ON	PLU=ON	7440-05-3/RN	
116334	SEA	FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L40	
36	SEA	FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L38 AND L41	
18	SEA	FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L24 AND (1840-2003	
)/PRY,AY,PY						
36	SEA	FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L42 OR L43	
22	SEA	FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L31 AND L44	
36	SEA	FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L44 OR L45	
9	SEA	FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L31 NOT L46	
	167 3081 37 36 1 116334 36 18 36 22	167 SEA 3081 SEA 36 SEA)/P; 1 SEA 116334 SEA 36 SEA 18 SEA)/P; 36 SEA 22 SEA 36 SEA	167 SEA FILE=REGISTR: 3081 SEA FILE=HCAPLUS 37 SEA FILE=HCAPLUS 36 SEA FILE=HCAPLUS)/PRY,AY,P 1 SEA FILE=REGISTR: 116334 SEA FILE=HCAPLUS 36 SEA FILE=HCAPLUS 18 SEA FILE=HCAPLUS)/PRY,AY,P 36 SEA FILE=HCAPLUS 22 SEA FILE=HCAPLUS 36 SEA FILE=HCAPLUS	167 SEA FILE-REGISTRY SUB-11. 3081 SEA FILE-HCAPLUS SPE-ON 37 SEA FILE-HCAPLUS SPE-ON 36 SEA FILE-HCAPLUS SPE-ON)/PPY,AY,PY 1 SEA FILE-REGISTRY SPE-ON 16334 SEA FILE-HCAPLUS SPE-ON 18 SEA FILE-HCAPLUS SPE-ON 18 SEA FILE-HCAPLUS SPE-ON)/PPY,AY,PY 36 SEA FILE-HCAPLUS SPE-ON 22 SEA FILE-HCAPLUS SPE-ON 36 SEA FILE-HCAPLUS SPE-ON 36 SEA FILE-HCAPLUS SPE-ON	167 SEA FILE=REGISTRY SUB-L16 SSS FU. 3081 SEA FILE=HCAPLUS SPE=ON ABB=ON 37 SEA FILE=HCAPLUS SPE=ON ABB=ON 36 SEA FILE=HCAPLUS SPE=ON ABB=ON)/PRY,AX,PY 1 SEA FILE=REGISTRY SPE=ON ABB=ON 116334 SEA FILE=HCAPLUS SPE=ON ABB=ON 36 SEA FILE=HCAPLUS SPE=ON ABB=ON 18 SEA FILE=HCAPLUS SPE=ON ABB=ON)/PRY,AX,PY 36 SEA FILE=HCAPLUS SPE=ON ABB=ON 22 SEA FILE=HCAPLUS SPE=ON ABB=ON 36 SEA FILE=HCAPLUS SPE=ON ABB=ON 36 SEA FILE=HCAPLUS SPE=ON ABB=ON	167 SEA FILE-REGISTRY SUB-L16 SSS FUL L33 3081 SEA FILE-HCAPLUS SPE-ON ABB-ON PLU-ON 37 SEA FILE-HCAPLUS SPE-ON ABB-ON PLU-ON 36 SEA FILE-HCAPLUS SPE-ON ABB-ON PLU-ON)/PRY,AY,PY 1 SEA FILE-REGISTRY SPE-ON ABB-ON PLU-ON 116334 SEA FILE-HCAPLUS SPE-ON ABB-ON PLU-ON 36 SEA FILE-HCAPLUS SPE-ON ABB-ON PLU-ON 18 SEA FILE-HCAPLUS SPE-ON ABB-ON PLU-ON)/PRY,AY,PY 36 SEA FILE-HCAPLUS SPE-ON ABB-ON PLU-ON 22 SEA FILE-HCAPLUS SPE-ON ABB-ON PLU-ON 36 SEA FILE-HCAPLUS SPE-ON ABB-ON PLU-ON	

=> d 147 1-9 ibib ed abs hitstr hitind

L47 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2010 ACS on STN 1996:335472 HCAPLUS Full-text ACCESSION NUMBER:

DOCUMENT NUMBER: 125:25154 ORIGINAL REFERENCE NO.: 125:4735a,4738a

TITLE: Study on the color reaction of palladium with ECR in the presence of CTMAB

AUTHOR(S):

Hu, Jiayuan; Xu, Lifang; Qian, Yiyin; Cai, Weidong CORPORATE SOURCE: Shanghai Higher Academy Chemical Technol.,

Shanghai, 200233, Peop. Rep. China SOURCE: Lihua Jianyan, Huaxue Fence (1996),

32(1), 41,58

CODEN: LJHFE2; ISSN: 1001-4020

PUBLISHER: Jixie Gongyebu Shanghai Cailiao Yanjiuso

DOCUMENT TYPE: Journal LANGUAGE: Chinese ED Entered STN: 08 Jun 1996

AB The blue violet complex of palladium with eriochrome cyanine R formed at pH 5 in the presence of CTMAB and was used for spectrophotometric determination of Pd. The absorption maximum of the complex was at 625 nm; the molar absorptivity was 6.8 + 104 L mol-1 cm-1. Beer's law was obeyed at 0.1-2.8 ug/mL. The method was apolied to the determination of Pd in catalysts with

satisfactory results. IT 7440-05-3, Palladium, analysis

(determination of palladium by spectrophotometry using eriochrome cyanine R and CTMAB)

RN 7440-05-3 HCAPLUS

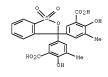
CN Palladium (CA INDEX NAME)

Pd

II 3564-18-9, Eriochrome cyanine R (determination of palladium by spectrophotometry using eriochrome cyanine R and CTMAB)

RN 3564-18-9 HCAPLUS

CN Benzoic acid, 3,3'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis[6-hydroxy-5-methyl-, sodium salt (1:3) (CA INDEX NAME)



■3 Na

CC 79-6 (Inorganic Analytical Chemistry)

IT 7440-05-3, Palladium, analysis

(determination of palladium by spectrophotometry using eriochrome cyanine R and CTMAB)

IT 57-09-0, CTMAB 3564-18-9, Eriochrome cyanine R

(determination of palladium by spectrophotometry using eriochrome cyanine R and CTMAB)

L47 ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1989:165170 HCAPLUS Full-text

DOCUMENT NUMBER: 110:165170

ORIGINAL REFERENCE NO.: 110:27165a,27168a

TITLE: Different-ligand complexes of some metal ions with

Eriochrome Cyanine R and diphenylguanidine
AUTHOR(S): Chermakova, L. I.; Baltgalve, I.; Rudzitis, G.

CORPORATE SOURCE: Univ. Charles, Prague, Czech.

SOURCE: Latvijas PSR Zinatnu Akademijas Vestis, Kimijas Serija (1988), (5), 578-81

CODEN: LZAKAM; ISSN: 0002-3248

DOCUMENT TYPE: Journal LANGUAGE: Russian

ED Entered STN: 30 Apr 1989

AB Eriochrome Cyanine R and diphenylguanidine form with Cu(II), Pd, and Be mixedligand complexes. Complexes of Be are practically completely extracted by mixts. of CRC13 with BuOH (7:3). The spectral contrast of the color reactions is 55-160 mm. The absorption maximum are at 560-590 nm. The molar absorptivities are 35,000-80,000. Maximum complex formation takes place at pH 6.0-7.5. The mixed-ligand complexes of Cu(II) and Be are more deeply and intensely colored than the homoligand complexes. This color reaction can be used for determining Be by extraction and spectrophotometry.

IT 7440-05-3, Palladium, reactions

(complexation of, with diphenylguanidine and Eriochrome Cyanine R)

RN 7440-05-3 HCAPLUS

CN Palladium (CA INDEX NAME)

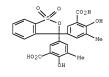
Pd

IT 3564-18-9

(for determination of beryllium by extraction and spectrophotometry)

RN 3564-18-9 HCAPLUS CN Benzoic acid, 3,3'

CN Benzoic acid, 3,3'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis[6-hydroxy-5-methyl-, sodium salt (1:3) (CA INDEX NAME)



■3 Na

IT 3564-18-9D, Eriochrome cyanin R, transition metal complexes with diphenylguanidine and

(spectra of)

RN 3564-18-9 HCAPLUS

CN Benzoic acid, 3,3'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis[6-hydroxy-5-methyl-, sodium salt (1:3) (CA INDEX NAME)

IT 7440-05-3D, Palladium, diphenylguanidine Eriochrome Cyanine R complex

(spectrum of) RN 7440-05-3 HCAPLUS

RN 7440-05-3 HCAPLUS

CN Palladium (CA INDEX NAME)

Pd

CC 79-6 (Inorganic Analytical Chemistry)

Section cross-reference(s): 78
IT 7440-05-3, Palladium, reactions 7440-50-8, Copper,

reactions
(complexation of, with diphenylguanidine and Eriochrome Cyanine R)

T 102-06-7 3564-18-9 (for determination of beryllium by extraction and spectrophotometry)

IT 102-06-70, Diphenylguandidne, transition metal complexes with Eriochrome Cyanine R and 3564-18-95, Eriochrome cyanin R, transition metal complexes with diphenylguandidne and

(spectra of)

T 744-05-8D, diphenylguanidine Eriochrome Cyanine R complex 7440-05-3D, Palladium, diphenylguanidine Eriochrome Cyanine R complex 7440-41-7D, Beryllium, diphenylguanidine Eriochrome Cyanine R complex

(spectrum of)

L47 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1986:526174 HCAPLUS Full-text

DOCUMENT NUMBER: 105:126174

ORIGINAL REFERENCE NO.: 105:20207a,20210a

TITLE: Spectrophotometric determination of palladium (II)

using thiolactams and Eriochrome Cyanine R

AUTHOR(S): Sikorska-Tomicka, Halina

CORPORATE SOURCE: Pol.

SOURCE: Zeszyty Naukowe Politechniki Bialostockiej:

Matematyka Fizyka, Chemia (1985), 9,

77-84

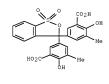
CODEN: ZNPCDA; ISSN: 0324-8410

DOCUMENT TYPE: Journal LANGUAGE: Polish

ED Entered STN: 03 Oct 1986

- AB The method is based on the formation of a 1:2:4 ternary complex of Pd, Eriochrome Cyanine R and a thiolactam at pH 3.5-5.5, followed by extraction with CHC13 and spectrophotometric measurement at 500 mm for thiocaprolactam, 495 nm for thiopiperidone, and 480 nm for thiopyrrolidone in the concentration range of Pd 0.1-4.0 µg/cm3. The effect of other ions was investigated.
- IT 7449-05-3, analysis (determination of, Eriochrome Cyanine R and thiolactams in extraction-spectrophotometric)
- RN 7440-05-3 HCAPLUS
- CN Palladium (CA INDEX NAME)

- IT 3564-18-9
 - (for determination of palladium by extraction and spectrophotometry)
- RN 3564-18-9 HCAPLUS
- CN Benzoic acid, 3,3'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis[6-hydroxy-5-methyl-, sodium salt (1:3) (CA INDEX NAME)



3 Na

- IT 3564-18-9D, palladium complexes 7440-05-3D, complexes with Briochrome Cyanine R and thiolactams (spectra of)
- RN 3564-18-9 HCAPLUS
- CN Benzoic acid, 3,3'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis[6-hydroxy-5-methyl-, sodium salt (1:3) (CA INDEX NAME)

RN 7440-05-3 HCAPLUS

CN Palladium (CA INDEX NAME)

CC 79-6 (Inorganic Analytical Chemistry)

тт 7440-05-3, analysis

(determination of, Eriochrome Cyanine R and thiolactams in extraction-spectrophotometric)

2295-35-4 3564-18-9 7203-96-5 13070-01-4

(for determination of palladium by extraction and spectrophotometry)

2295-35-4D, palladium complexes 3564-18-9D, palladium complexes 7203-96-5D, palladium complexes 7440-05-3D, complexes with Eriochrome Cvanine R and thiolactams 13070-01-4D, palladium complexes (spectra of)

L47 ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1986:417581 HCAPLUS Full-text DOCUMENT NUMBER: 105:17581

ORIGINAL REFERENCE NO.: 105:2793a,2796a

TITLE: Spectrophotometric determination of thiolactams with palladium(II) and Eriochrome Cvanine R

AUTHOR(S): Sikorska-Tomicka, Halina

CORPORATE SOURCE: Zakl. Chem., Politech. Bialostocka, Bialystok, 15-351, Pol.

Chemia Analityczna (Warsaw, Poland) (1985

SOURCE:), 30(4), 657-63

CODEN: CANWAJ: ISSN: 0009-2223

DOCUMENT TYPE: Journal LANGUAGE: Polish ED Entered STN: 13 Jul 1986

AB Thiolactams (TLA) reacts with Pd(II) and Eriochrome Cyanine R (ERC) to form ternary complexes with the Pd:ERC:TLA molar ratio 1:2:4, the complex is extractable at pH 3-4 with CHCl3; the λ max of the extract is 480-510 nm. The method permits the determination of 20-160 µg thiolactam/mL (or thiopyrrolidone, thiopiperidinone, thiocaprolactam, thioenantholactam) in the presence of a 10-fold excess of lactams. 3564-18-9 7440-05-3, uses and miscellaneous

(in determination of thiolactams by extraction and spectrophotometry)

RN 3564-18-9 HCAPLUS

CN Benzoic acid, 3,3'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis[6-hydroxy-5-methyl-, sodium salt (1:3) (CA INDEX NAME)

●3 Na

RN 7440-05-3 HCAPLUS

CN Palladium (CA INDEX NAME)

Pd

CC 80-6 (Organic Analytical Chemistry)

IT 3564-18-9 7440-05-3, uses and miscellaneous

(in determination of thiolactams by extraction and spectrophotometry)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS

RECORD (1 CITINGS)

L47 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1983:463340 HCAPLUS Full-text

DOCUMENT NUMBER: 99:63340

ORIGINAL REFERENCE NO.: 99:9689a,9692a

TITLE: Complex formation of some elements with Eriochrome

Cyanine R

AUTHOR(S): Tikhonov, V. N.; Anisimova, T. M.

CORPORATE SOURCE: Chuvash State Univ., Cheboksary, USSR SOURCE: Zhurnal Analiticheskoi Khimii (1983),

38(5), 778-82

CODEN: ZAKHA8; ISSN: 0044-4502

DOCUMENT TYPE: Journal

LANGUAGE: Russian ED Entered STN: 12 May 1984

AB The formation of complexes of Be, Cu(II), Fe(III), Pd(II), and V(IV) was studied by spectrophotometry to find the optimum conditions for determining these metals. The molar absorptivities of the Eriochrome Cyanine R complexes are (2.2-4.7) + 104 at 520-575 nm and pH 5.4-6.8. The effects of HOAc + NaOAc concentration, dilution, and acidity of the solution before adding the reagent were studied. The optimum initial pH is apprx.2.

IT 7440-05-3, analysis

(determination of, Eriochrome Cyanine R in spectrophotometric)

RN 7440-05-3 HCAPLUS

CN Palladium (CA INDEX NAME)

Ρd

TT 3564-18-9

(in determination of metals by spectrophotometry)

RN 3564-18-9 HCAPLUS

CN Benzoic acid, 3,3'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis[6-hydroxy-5-methyl-, sodium salt (1:3) (CA INDEX NAME)

3 Na

RN 7440-05-3 HCAPLUS

CN Palladium (CA INDEX NAME)

- -

CC 79-1 (Inorganic Analytical Chemistry)

Section cross-reference(s): 73, 78

IIT 7439-89-6, analysis 7440-05-3, analysis 7440-41-7,
analysis 7440-50-8, analysis 7440-62-2, analysis
(determination of, Ericohrome Cyonine R in spectrophotometric)

IT 3564-18-9

(in determination of metals by spectrophotometry)

IT 7439-89-6D, Eriochrome Cyanine R complex 7440-05-3D, Eriochrome Cyanine R complex 7440-41-7D, Briochrome Cyanine R complex 7440-50-8D, Eriochrome Cyanine R complex 7440-62-2D, Eriochrome Cyanine R complex

(spectrum of)

L47 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1979:621888 HCAPLUS Full-text

DOCUMENT NUMBER: 91:221888

ORIGINAL REFERENCE NO.: 91:35603a,35606a

TITLE: Eriochrome Cyanine R in the presence of cetyltrimethylammonium as a metallochrome

indicator

AUTHOR(S): Tikhonov, V. N.; Stepanova, T. Ya.
CORPORATE SOURCE: Chuvash State Univ., Cheboksary, USSR
SOURCE: Zhurnal Analiticheskoi Khimii (1979).

Zhurnal Analiticheskoi Khimii (1979), 34(8), 1479-84

CODEN: ZAKHA8; ISSN: 0044-4502

DOCUMENT TYPE: Journal LANGUAGE: Russian

ED Entered STN: 12 May 1984

AB A mixture of Eriochrome Cyanine R (I) and cetyltrimethylammonium bromide is a more selective complexometric indicator than I alone. complexometric titration with this indicator mixture gives a high contrast in the color change at the end point. Cu(II), Ga, Sc, Th, Fe(III), and In can be titrated directly with 0.005M EDTA. Al, Ti(IV), Zr, and V(IV) are determined by back titration with 0.005M FeCl2. A complexometric method was developed for Al determination in ferrosilicon.

IT 3564-18-9

(cetyltrimethylammonium bromide-containing, as mixed complexometric indicator)

RN 3564-18-9 HCAPLUS

CN Benzoic acid, 3,3'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis[6-hydroxy-5-methyl-, sodium salt (1:3) (CA INDEX NAME)

IT 7440-05-3, analysis

Na

(determination of, cetyltrimethylammonium bromide-Eriochrome Cyanine R mixed indicator in complexometric)

RN 7440-05-3 HCAPLUS

CN Palladium (CA INDEX NAME)

CC 79-6 (Inorganic Analytical Chemistry)

TT 3564-18-9

(cetyltrimethylammonium bromide-containing, as mixed complexometric indicator)

IT 7439-89-6, analysis 7440-05-3, analysis 7440-20-2, analysis 7440-50-8, analysis 7440-55-3, analysis (determination of, cetyltrimethylammonium bromide-Eriochrome Cyanine R mixed indicator in complexometric)

L47 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1978:145626 HCAPLUS Full-text

DOCUMENT NUMBER: 88:145626

ORIGINAL REFERENCE NO.: 88:22827a,22830a

TITLE: Complexing of palladium (II) with Eriochrome Cyanine R and cetyltrimethylammonium

AUTHOR(S): Tikhonov, V. N.; Petukhova, E. A.; Vashurkina, E.

AUTHOR(5): IIKNONOV, V. N.; PETUKNOVA, E. A.; VASNUFKINA, E. A.

CORPORATE SOURCE: Chuv. Gos. Univ., Cheboksarv, USSR

SOURCE: Izvestiya Vysshikh Uchebnykh Zavedenii, Khimiya i

Khimicheskaya Tekhnologiya (1978),

21(1), 43-5

CODEN: IVUKAR; ISSN: 0579-2991

DOCUMENT TYPE: Journal LANGUAGE: Russian

LANGUAGE: Russia ED Entered STN: 12 May 1984

AB Pd2+ was determined spectrophotometrically by measuring the absorbance of the 1:2:3 Pd-Eriochrome Cyanine R-cetyltrimethylammonium complex at 600-20 nm (molar absorptivity 9.6 + 104) in a pH 5.5-6.0 NaOAc buffer. Cu2+, Be, Al,

Ga, In, Sc, Fe3+, EDTA, tartrate, and citrate interfere strongly.

IT 7440-05-3, analysis

(determination of, cetyltrimethylammonium and Eriochrome Cyanine R in spectrophotometric)

RN 7440-05-3 HCAPLUS

CN Palladium (CA INDEX NAME)

Ρd

- IT 3564-18-9
 - (in determination of palladium by spectrophotometry)
- RN 3564-18-9 HCAPLUS
- CN Benzoic acid, 3,3'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis(6-hvdroxy-5-methyl-, sodium salt (1:3) (CA INDEX NAME)

3 Na

- IT 7440-05-3D, cetyltrimethylammonium and Eriochrome Cyanine R complex
- (spectrum of) RN 7440-05-3 HCAPLUS

CN Palladium (CA INDEX NAME)

Pd

CC 79-6 (Inorganic Analytical Chemistry)

IT 7440-05-3, analysis

(determination of, cetyltrimethylammonium and Eriochrome Cyanine R in spectrophotometric)

T 57-09-0 3564-18-9

(in determination of palladium by spectrophotometry)

T 2588-24-1D, titanium complex 6899-10-1D, titanium complex 7440-05-3D, cetyltrimethylammonium and Eriochrome Cyanine R complex

(spectrum of)

L47 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1976:503400 HCAPLUS Full-text

DOCUMENT NUMBER: 85:103400

ORIGINAL REFERENCE NO.: 85:16497a,16500a

TITLE: Spectrophotometric determination of the platinum metals. Determination of palladium with

Eriochrome Cyanine R in the presence of

cetylpyridinium bromide

AUTHOR(S): Duchkova, H.; Malat, M.; Cermakova, L.

CORPORATE SOURCE: Dep. Anal. Chem., Charles Univ., Prague, Czech.

SOURCE: Analytical Letters (1976), 9(5), 487-95

CODEN: ANALBP; ISSN: 0003-2719

DOCUMENT TYPE: Journal LANGUAGE: English

ED Entered STN: 12 May 1984

- AB A new photometric method was developed for the determination of μg amts. of Pd(II) on the basis of a ternary complex of the metal, Eriochrome Cyanine R, and cetylpyridinium bromide, which is formed in an acetate buffer medium (pH 3.5-5.5) and exhibits an absorption maximum at 630 mm. The system obeys Beer's law for 0.2-2.7 ppm Pd(II). The mean relative standard deviation is 0.14%, the molar absorptivity is 6.5 + 104 at the wavelength of the maximum difference between the absorbances of the sample and the blank (630 nm), and the detection limit is 1.2 + 10-3 ug cm-2 for A = 0.001
- IT 7440-05-3, analysis

(determination of, Eriochrome Cyanine R and cetylpyridinium bromide in spectrophotometric)

- RN 7440-05-3 HCAPLUS
- CN Palladium (CA INDEX NAME)

Pd

- IT 3564-18-9
 - (in determination of palladium, spectrophotometric)
- RN 3564-18-9 HCAPLUS
- CN Benzoic acid, 3,3'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis[6-hydroxy-5-methyl-, sodium salt (1:3) (CA INDEX NAME)

7440-05-3D, Palladium, cetylpyridinium and Eriochrome Cyanine R complex (spectrum of)

RN 7440-05-3 HCAPLUS

Palladium (CA INDEX NAME) CN

CC 79-6 (Inorganic Analytical Chemistry)

7440-05-3, analysis IT

(determination of, Eriochrome Cyanine R and cetylpyridinium bromide in spectrophotometric)

140-72-7 3564-18-9

(in determination of palladium, spectrophotometric)

2588-24-1D, Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5cyclohexadien-1-ylidene) (2-sulfophenyl)methyl]-2-hydroxy-3-methyl-, palladium complex 7440-05-3D, Palladium, cetylpyridinium and Eriochrome Cyanine R complex 7773-52-6D, Pyridinium, 1-hexadecyl-, palladium complex

(spectrum of)

L47 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1971:119771 HCAPLUS Full-text

DOCUMENT NUMBER: 74:119771

ORIGINAL REFERENCE NO.: 74:19333a,19336a

TITLE: Colored chelate of palladium(II) with Eriochrome

Cvanine RC

AUTHOR(S): Shrivastawa, Suresh C.; Munshi, Kailash N.; Dey, Arun K.

CORPORATE SOURCE: Chem. Lab., Univ. Allahabad, Allahabad, India

SOURCE: Journal of the Indian Chemical Society (

1970), 47(10), 1013-14 CODEN: JICSAH; ISSN: 0019-4522

DOCUMENT TYPE: Journal LANGUAGE: English

ED Entered STN: 12 May 1984

AB Pd(II) formed a 1:1 anionic complex with Eriochrome Cyanine RC with the conditional stability constant log K = 5.0 at 25° and at pH 4.5, which

followed Beer's law at 550 nm (molar absorptivity was 1.35+104) at pH 4.5 for 0.21-5.12 ppm Pd. The proposed structure for the complex involved a chelate ring formed by Pd coordination with the phenolic O and adjacent carboxylic O atoms.

IT 7440-05-3, analysis

(determination of, C.I. Mordant Blue 3 in)

RN 7440-05-3 HCAPLUS

CN Palladium (CA INDEX NAME)

Pd

IT 3564-18-9

(in determination of palladium)

RN 3564-18-9 HCAPLUS

CN Benzoic acid, 3,3'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis[6-hydroxy-5-methyl-, sodium salt (1:3) (CA INDEX NAME)

3 Na

IT 3564-18-9DP, C.I. Mordant Blue 3, palladium complexes (preparation of)

RN 3564-18-9 HCAPLUS

CN Benzoic acid, 3,3'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis[6-hvdroxy-5-methyl-, sodium salt (1:3) (CA INDEX NAME)

●3 Na

- CC 79 (Inorganic Analytical Chemistry) 7440-05-3, analysis
- IT (determination of, C.I. Mordant Blue 3 in)
- 3564-18-9 IT
- (in determination of palladium) 3564-18-9DP, C.I. Mordant Blue 3, palladium complexes ΙT (preparation of)

```
=> d his nofile
```

```
(FILE 'HOME' ENTERED AT 09:57:32 ON 03 JUN 2010)
    FILE 'HCAPLUS' ENTERED AT 09:57:43 ON 03 JUN 2010
             1 SEA SPE=ON ABB=ON PLU=ON US20050266574/PN
               SEL RN
     FILE 'REGISTRY' ENTERED AT 09:57:55 ON 03 JUN 2010
             8 SEA SPE=ON ABB=ON PLU=ON (115-41-3/BI OR 1667-99-8/BI
               OR 1796-92-5/BI OR 3564-18-9/BI OR 7440-05-3/BI OR
               7440-50-8/BI OR 7647-10-1/BI OR 7758-98-7/BI)
               E CHROME AZUROL S/CN
L3
             1 SEA SPE=ON ABB=ON PLU=ON "CHROME AZUROL S"/CN
               E CHROME AZUROL B/CN
L4
             1 SEA SPE=ON ABB=ON PLU=ON "CHROME AZUROL B"/CN
               E ERIOCHROME CYANINE/CN
L5
             1 SEA SPE=ON ABB=ON PLU=ON "ERIOCHROME CYANINE"/CN
L6
             1 SEA SPE=ON ABB=ON PLU=ON "ERIOCHROME CYANINE R"/CN
              E PYROCATECHOL VIOLET/CN
L7
             1 SEA SPE=ON ABB=ON PLU=ON "PYROCATECHOL VIOLET"/CN
1.8
               STR
L9
             3 SEA SSS SAM L8
L10
              STR L8
L11
             0 SEA SSS SAM L10
1.12
              SCR 1029 OR 1035
L13
             1 SEA SSS SAM L10 AND L12
L14
               SCR 1139
L15
             3 SEA SSS SAM L10 AND L14
L16
          931 SEA SSS FUL L10 AND L14
             2 SEA SPE=ON ABB=ON PLU=ON L16 AND L2
               SAV L16 WHI790/A
T.18
             O SEA SPE=ON ABB=ON PLU=ON L16 AND PD/ELS
L19
             2 SEA SPE=ON ABB=ON PLU=ON L2 AND PD/ELS
L20
           148 SEA SPE=ON ABB=ON PLU=ON L16 AND M/ELS
L21
           783 SEA SPE=ON ABB=ON PLU=ON L16 NOT L20
     FILE 'HCAPLUS' ENTERED AT 10:25:01 ON 03 JUN 2010
L22
         124082 SEA SPE=ON ABB=ON PLU=ON L19
L23
          1090 SEA SPE=ON ABB=ON PLU=ON L17
L24
            19 SEA SPE=ON ABB=ON PLU=ON L22 AND L23
L25
         12051 SEA SPE=ON ABB=ON PLU=ON L16
L26
            82 SEA SPE=ON ABB=ON PLU=ON L22 AND L25
L27
            54 SEA SPE=ON ABB=ON PLU=ON L26 AND ANST/RL
L28
          2280 SEA SPE=ON ABB=ON PLU=ON L3 OR L4 OR L6 OR L7
            39 SEA SPE=ON ABB=ON PLU=ON L28 AND L22
1.29
L30
            32 SEA SPE=ON ABB=ON PLU=ON L29 AND ANST/RL
L31
            31 SEA SPE=ON ABB=ON PLU=ON L30 AND (1840-2003)/PRY, AY, PY
    FILE 'REGISTRY' ENTERED AT 10:29:27 ON 03 JUN 2010
L32
            32 SEA SUB=L16 SSS SAM L8
L33
               STR L8
L34
             7 SEA SUB=L16 SSS SAM L33
L35
           167 SEA SUB=L16 SSS FUL L33
               SAV L35 WHI790A/A
```

FILE 'HCAPLUS' ENTERED AT 10:35:27 ON 03 JUN 2010 3081 SEA SPE=ON ABB=ON PLU=ON L35 L36

L37 L38			SPE=ON SPE=ON	ABB=ON ABB=ON	PLU=ON PLU=ON	L36 AND L22 L37 AND (1840-2003)/PRY,AY,PY
L39			SPE=ON	ABB=ON	PLU=ON	L38 AND L1
	FILE 'REGIS	STRY	' ENTERE	AT 10:3	37:56 ON	03 JUN 2010
L40	1	SEA	SPE=ON	ABB=ON	PLU=ON	7440-05-3/RN
	FILE 'HCAPI	us'	ENTERED	AT 10:31	3:36 ON	03 JUN 2010
L41				ABB=ON	PLU=ON	L40
L42	36	SEA	SPE=ON	ABB=ON	PLU=ON	L38 AND L41
L43	18	SEA	SPE=ON	ABB=ON	PLU=ON	L24 AND (1840-2003)/PRY, AY, PY
L44	36	SEA	SPE=ON	ABB=ON	PLU=ON	L42 OR L43
L45	22	SEA	SPE=ON	ABB=ON	PLU=ON	L31 AND L44
L46	36	SEA	SPE=ON	ABB=ON	PLU=ON	L44 OR L45
L47	9	SEA	SPE=ON	ABB=ON	PLU=ON	L31 NOT L46
L48	27	SEA	SPE=ON	ABB=ON	PLU=ON	L27 AND L46
L49	36	SEA	SPE=ON	ABB=ON	PLU=ON	L46 OR L48